

# Appendix B

## E-UTRA Band 5



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# 1 Effective (Isotropic) Radiated Power

## 1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	22.32	20.67	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.48	20.83	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.36	20.71	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	22.44	20.79	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	22.43	20.78	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	22.32	20.67	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.45	19.80	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.33	20.68	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.50	20.85	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.34	20.69	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	22.44	20.79	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	22.50	20.85	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	22.47	20.82	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.52	19.87	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.37	20.72	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.65	21.00	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.54	20.89	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	22.49	20.84	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	22.56	20.91	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	22.51	20.86	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.48	19.83	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.52	19.87	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.46	19.81	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.68	20.03	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.45	19.80	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	21.53	19.88	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	21.49	19.84	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.51	18.86	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.84	20.19	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.72	20.07	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.47	19.82	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	21.55	19.90	38.45	PASS



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Band5	1.4MHz	16QAM	20525	3RB#1	21.45	19.80	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	21.64	19.99	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.47	18.82	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.32	19.67	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.03	20.38	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.52	19.87	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	21.49	19.84	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	21.48	19.83	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	21.57	19.92	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.50	18.85	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.47	20.82	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.55	20.90	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.32	20.67	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	21.43	19.78	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	21.57	19.92	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	21.35	19.70	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.41	19.76	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.45	20.80	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.51	20.86	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.46	20.81	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	21.42	19.77	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	21.41	19.76	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	21.40	19.75	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.42	19.77	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.47	20.82	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.52	20.87	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.53	20.88	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	21.50	19.85	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	21.47	19.82	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	21.44	19.79	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.49	19.84	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.84	20.19	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.97	20.32	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.61	19.96	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	20.46	18.81	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	20.57	18.92	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	20.35	18.70	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.32	18.67	38.45	PASS



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Band5	3MHz	16QAM	20525	1RB#0	21.85	20.20	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.14	20.49	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.41	19.76	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	20.56	18.91	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	20.52	18.87	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.30	18.65	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.57	18.92	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.51	19.86	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.69	20.04	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.66	20.01	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	20.64	18.99	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	20.70	19.05	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	20.68	19.03	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.48	18.83	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.28	20.63	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.54	20.89	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.32	20.67	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	21.36	19.71	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	21.49	19.84	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	21.51	19.86	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.34	19.69	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.37	20.72	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.36	20.71	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.32	20.67	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	21.40	19.75	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	21.46	19.81	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	21.39	19.74	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.45	19.80	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.42	20.77	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.51	20.86	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.43	20.78	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	21.54	19.89	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	21.46	19.81	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	21.52	19.87	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.56	19.91	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.81	20.16	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.03	20.38	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.26	19.61	38.45	PASS



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Band5	5MHz	16QAM	20425	12RB#0	20.46	18.81	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	20.50	18.85	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	20.44	18.79	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.48	18.83	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.48	19.83	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.51	19.86	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.47	19.82	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	20.42	18.77	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	20.40	18.75	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	20.50	18.85	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.41	18.76	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.51	19.86	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.03	20.38	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.82	20.17	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	20.51	18.86	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	20.48	18.83	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	20.47	18.82	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.37	18.72	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.29	20.64	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.47	20.82	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.23	20.58	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	21.48	19.83	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	21.44	19.79	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	21.49	19.84	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.43	19.78	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.51	20.86	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.72	21.07	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.41	20.76	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	21.55	19.90	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	21.58	19.93	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	21.50	19.85	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.50	19.85	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.26	20.61	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.52	20.87	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.54	20.89	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	21.45	19.80	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	21.52	19.87	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	21.43	19.78	38.45	PASS



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Band5	10MHz	QPSK	20600	50RB#0	21.48	19.83	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.37	19.72	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.09	20.44	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.02	20.37	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	20.51	18.86	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	20.48	18.83	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	20.39	18.74	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	20.48	18.83	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.36	19.71	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.70	20.05	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.64	19.99	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	20.54	18.89	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	20.50	18.85	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	20.57	18.92	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.51	18.86	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.53	19.88	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.65	20.00	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.67	20.02	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	20.51	18.86	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	20.54	18.89	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	20.39	18.74	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	20.41	18.76	38.45	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



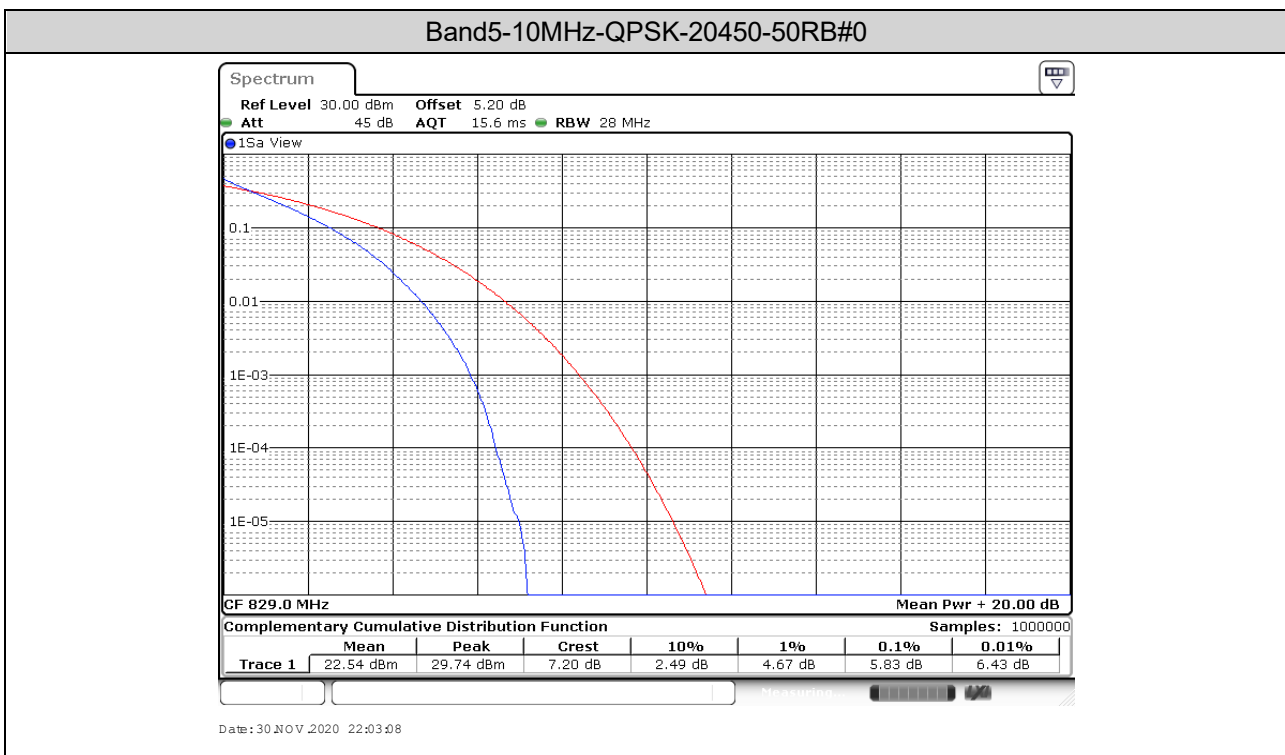
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## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

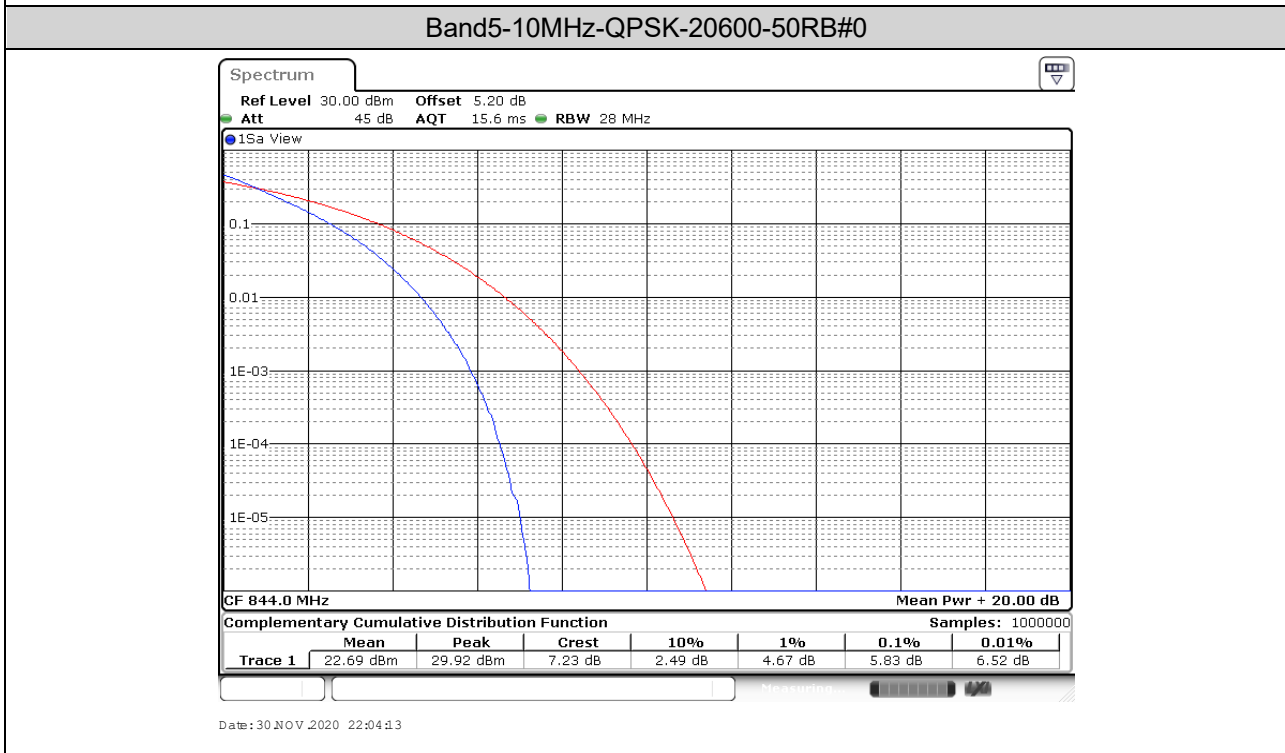
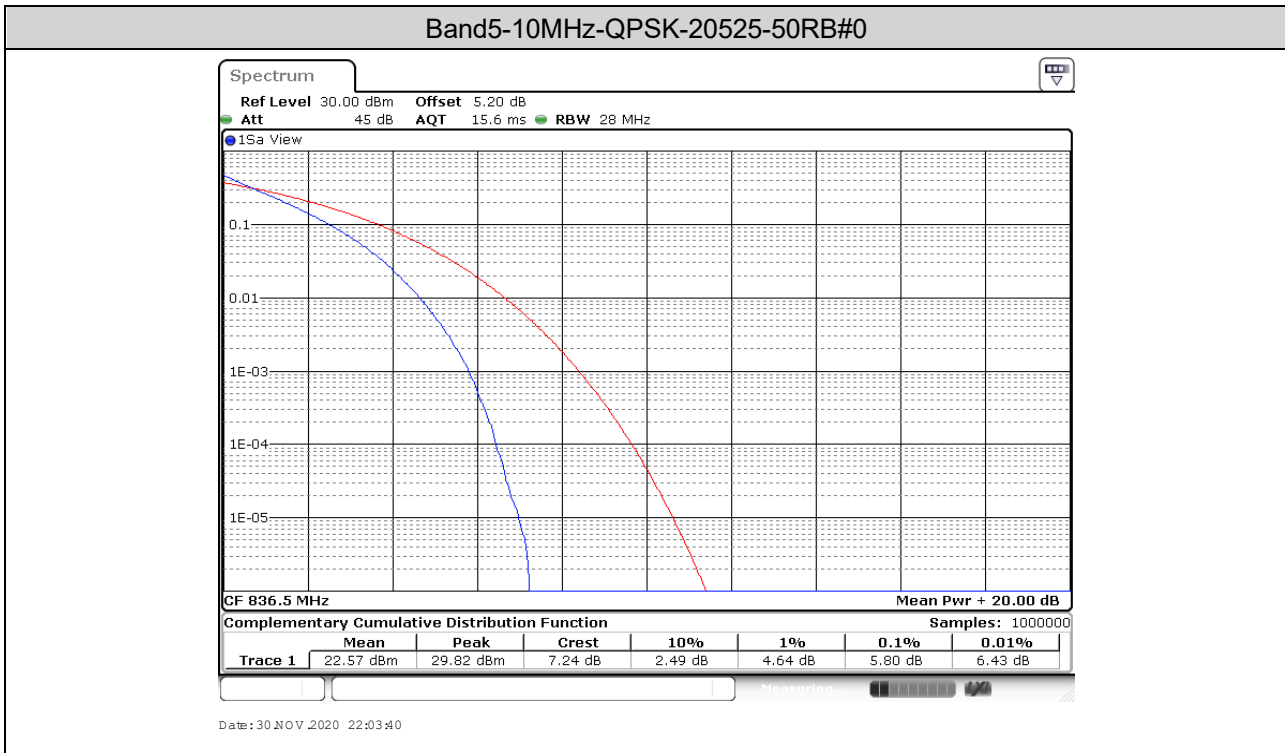
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.83	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.80	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.83	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.49	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.46	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.55	13	PASS

### 2.2. Test Plots



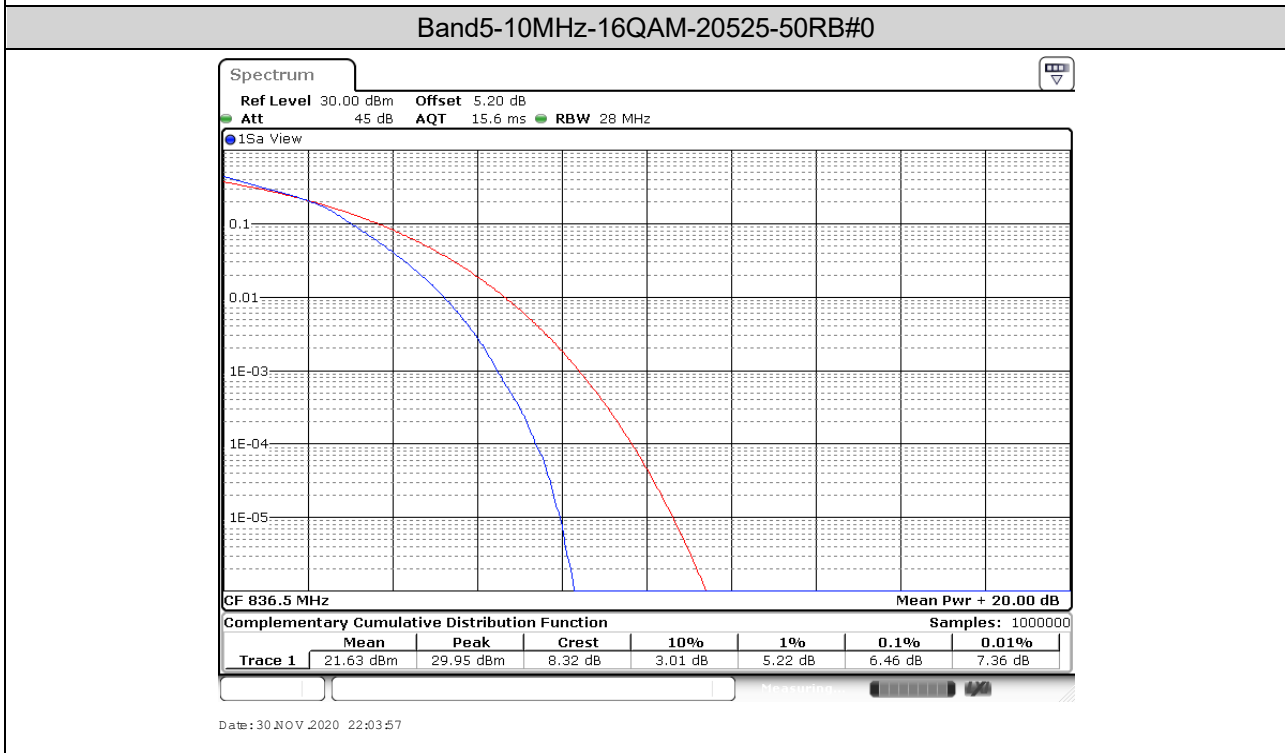
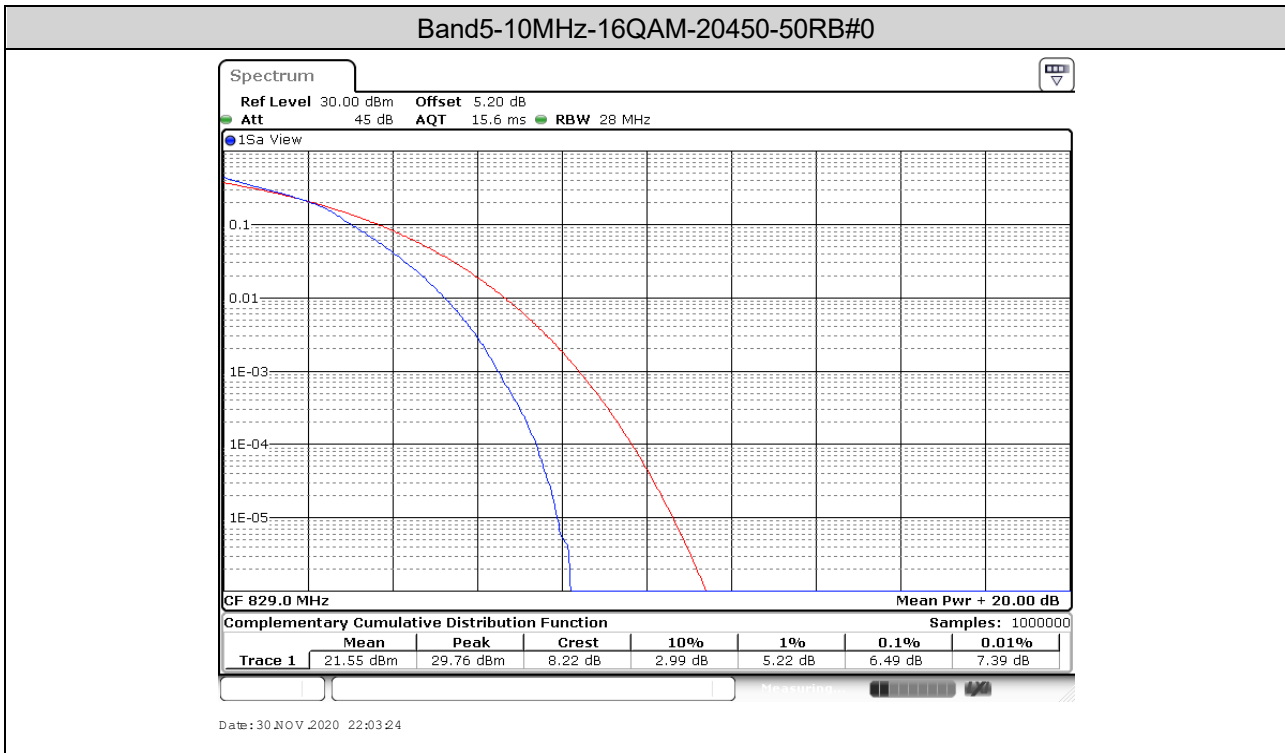
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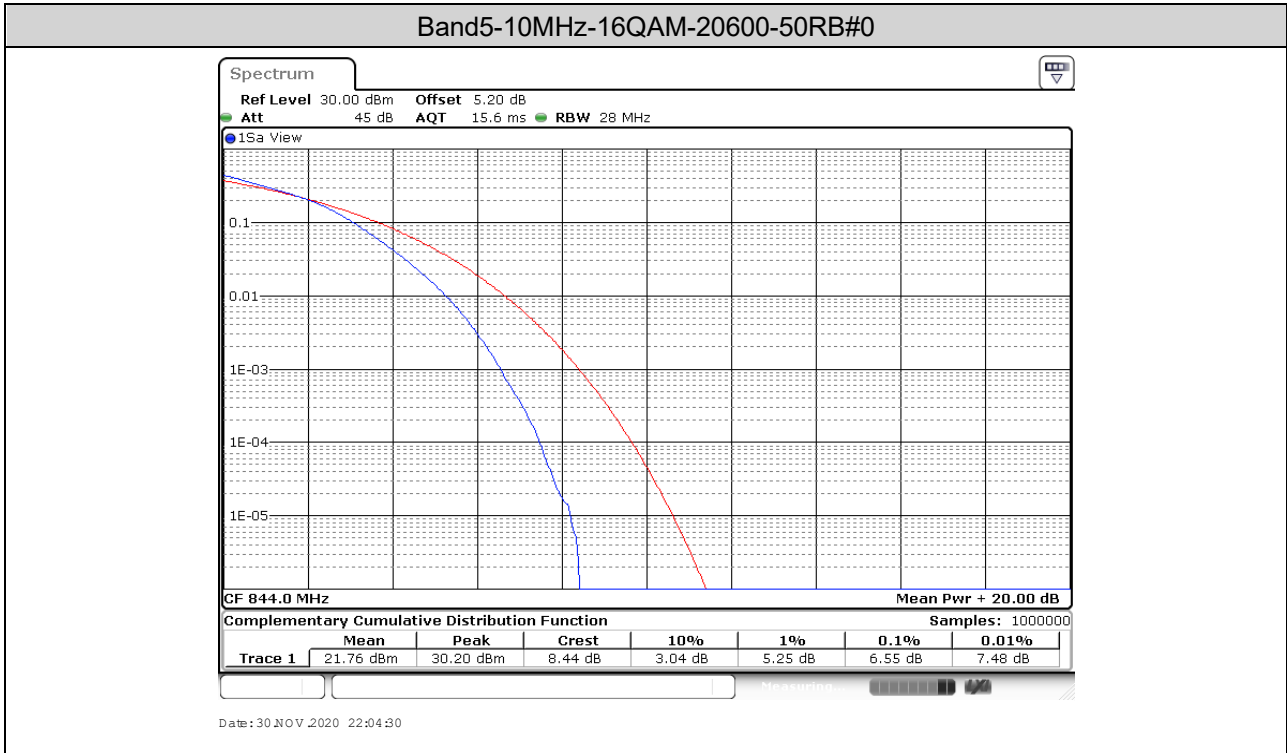
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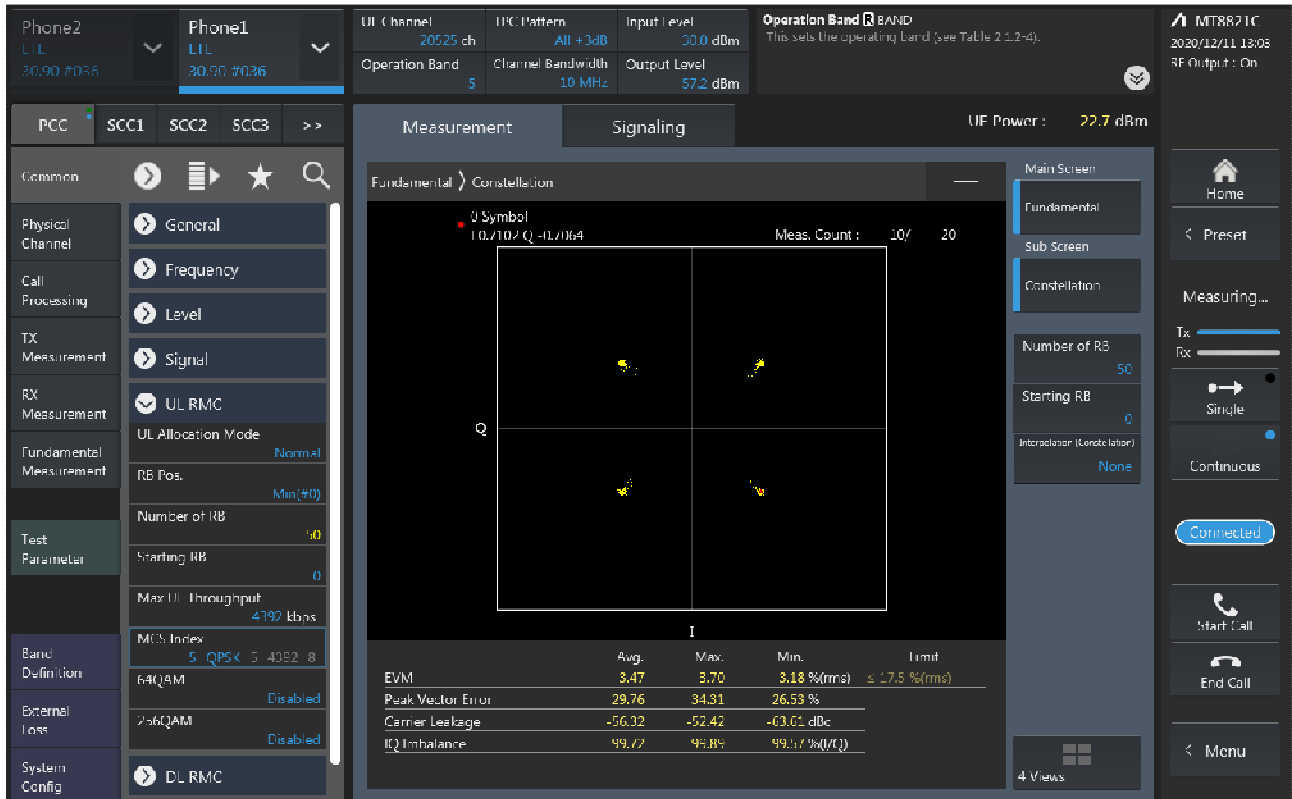
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### 3. Modulation Characteristics

#### 3.1. Test Mode = LTE /TM1 10MHz

##### 3.1.1. Test Channel = MCH

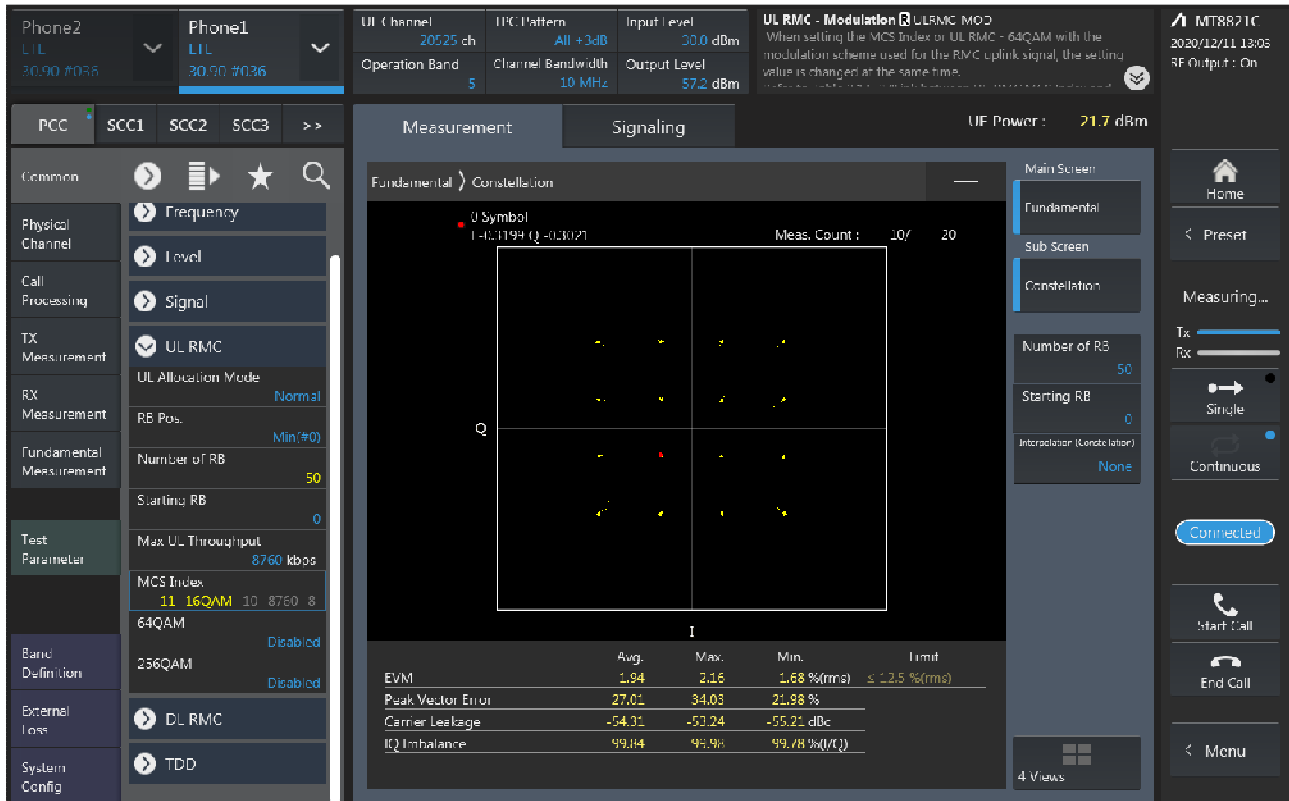


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### 3.2. Test Mode = LTE /TM2 10MHz

#### 3.2.1. Test Channel = MCH



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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

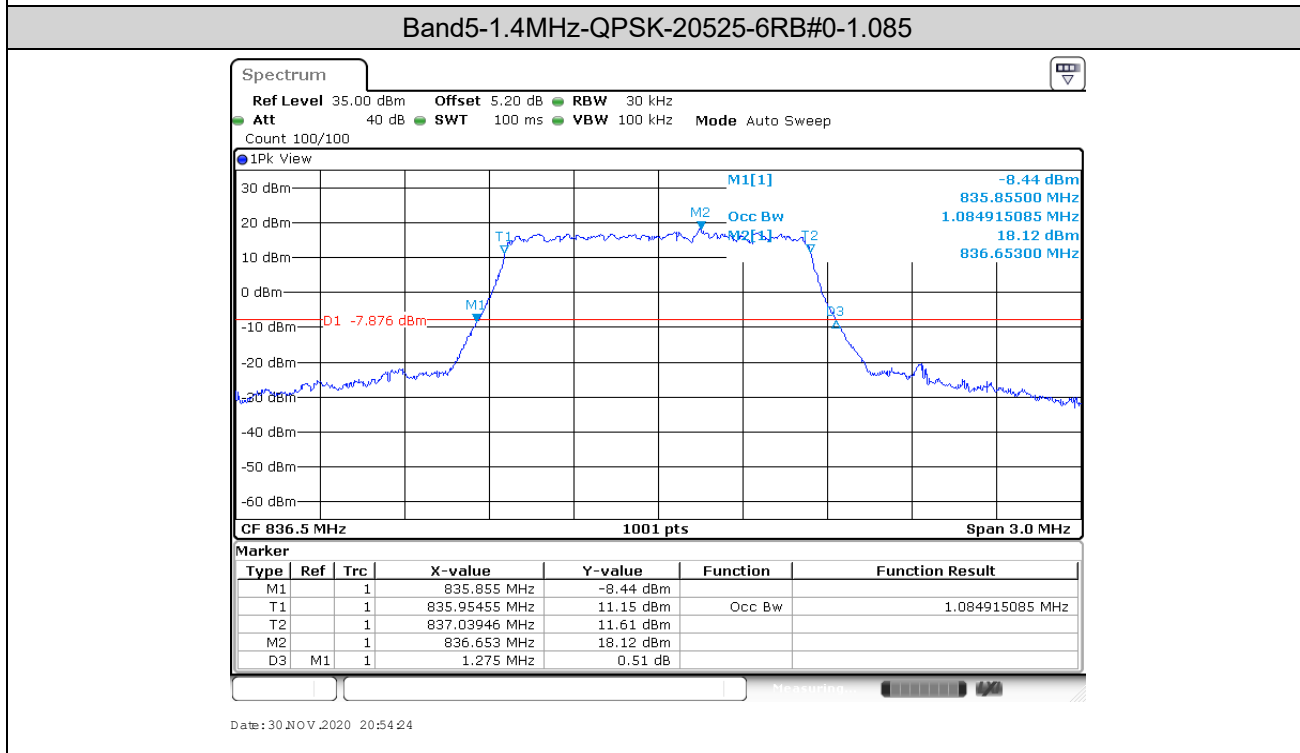
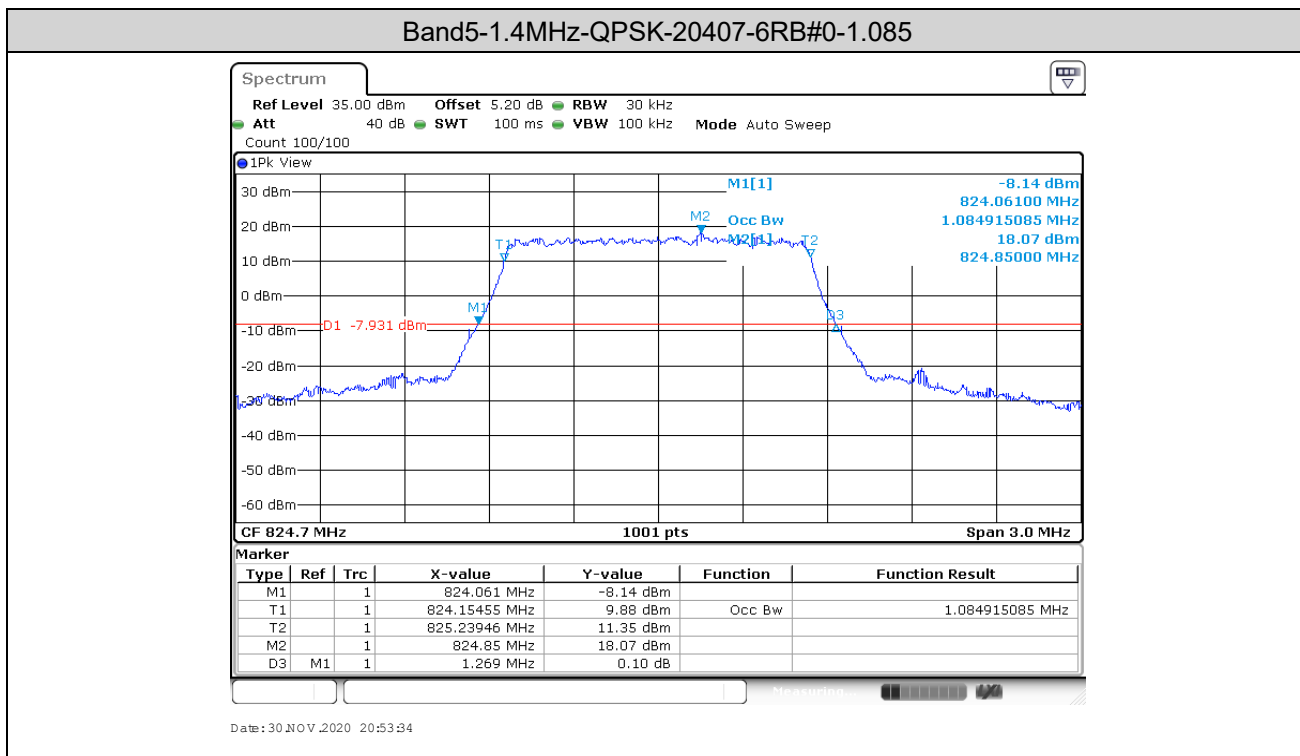
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.085	1.269	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.085	1.275	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.085	1.269	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.284	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.094	1.290	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.094	1.293	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.691	2.880	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.685	2.892	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.691	2.910	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.679	2.874	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.679	2.868	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.673	2.916	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.476	4.840	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.466	4.810	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.456	4.820	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.466	4.810	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.476	4.850	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.476	4.850	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.951	9.620	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.911	9.540	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.931	9.640	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.931	9.640	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.931	9.620	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.931	9.580	PASS



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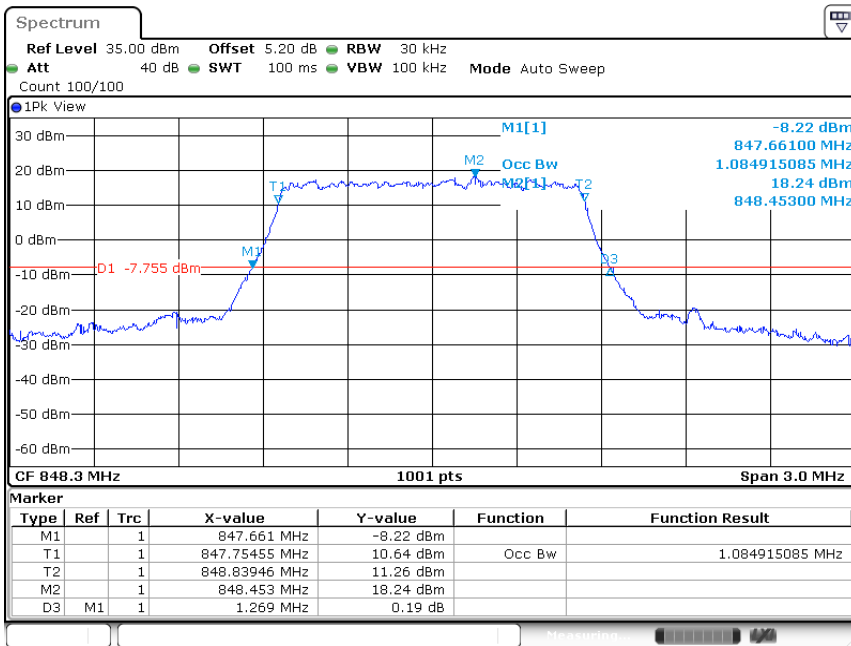
### 4.2. Test Plots



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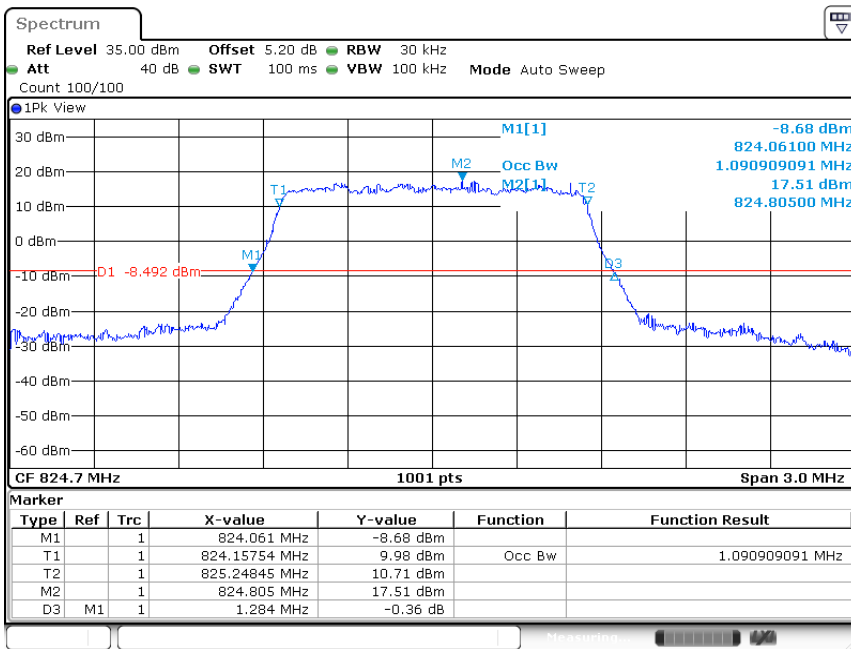
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**Band5-1.4MHz-QPSK-20643-6RB#0-1.085**



Date: 30 NOV.2020 20:55:14

**Band5-1.4MHz-16QAM-20407-6RB#0-1.091**



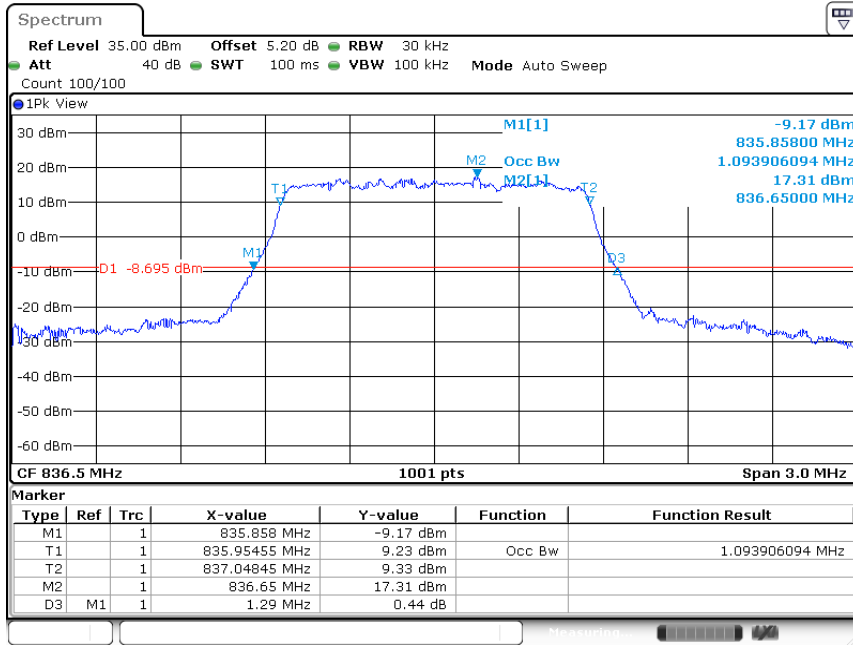
Date: 30 NOV.2020 20:53:59



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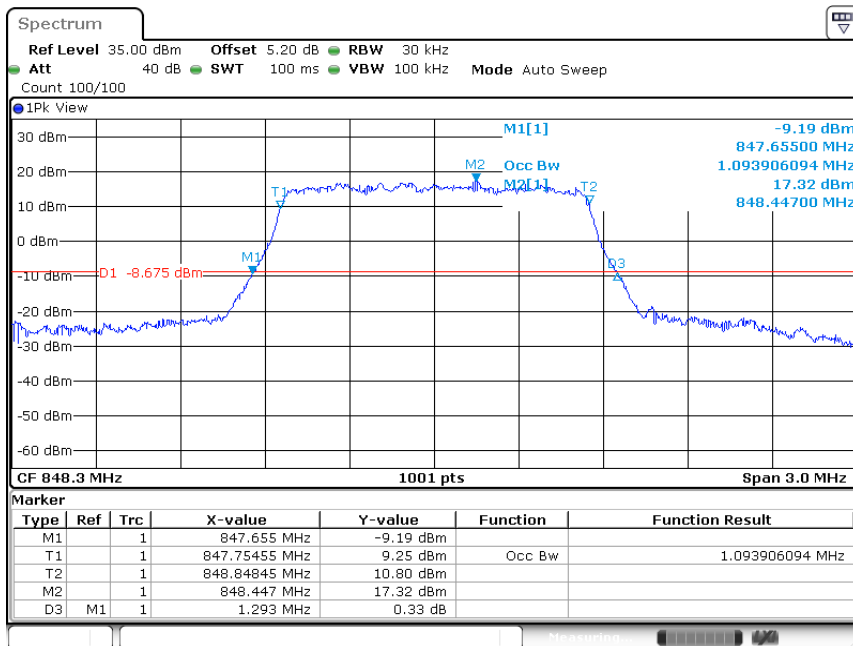


**Band5-1.4MHz-16QAM-20525-6RB#0-1.094**



Date: 30 NOV.2020 20:54:49

**Band5-1.4MHz-16QAM-20643-6RB#0-1.094**



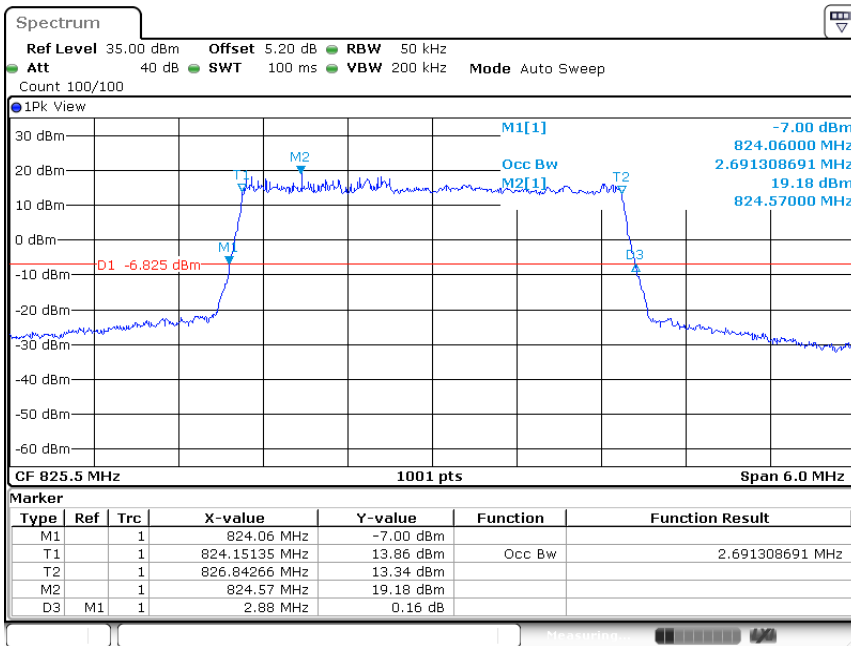
Date: 30 NOV.2020 20:55:39



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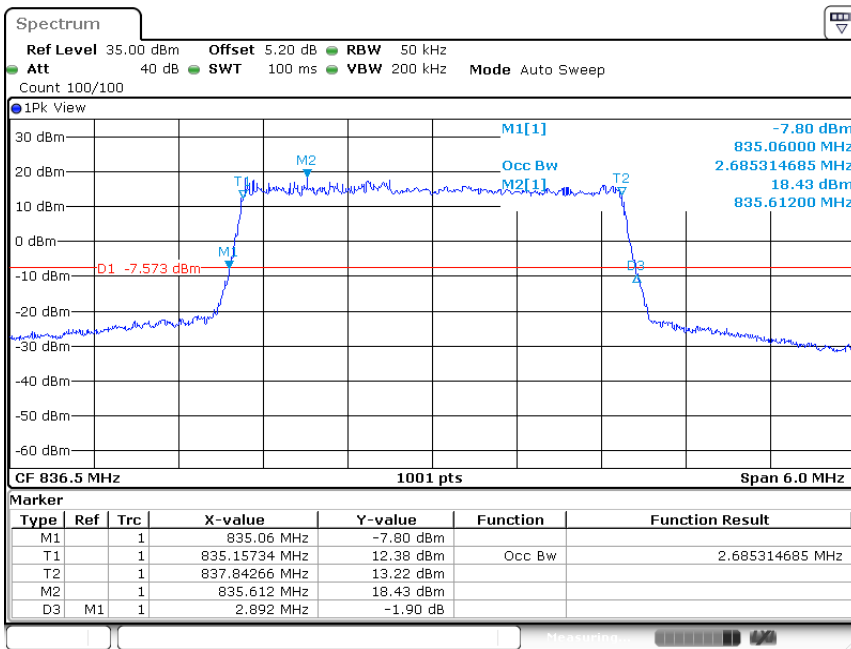
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**Band5-3MHz-QPSK-20415-15RB#0-2.691**



Date: 30 NOV.2020 20:56:13

**Band5-3MHz-QPSK-20525-15RB#0-2.685**

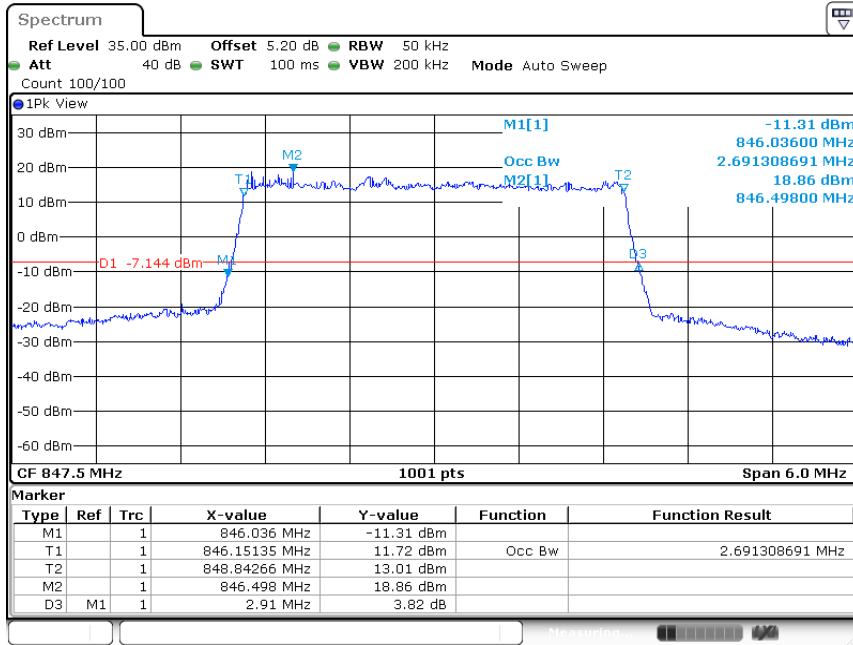


Date: 30 NOV.2020 20:57:03



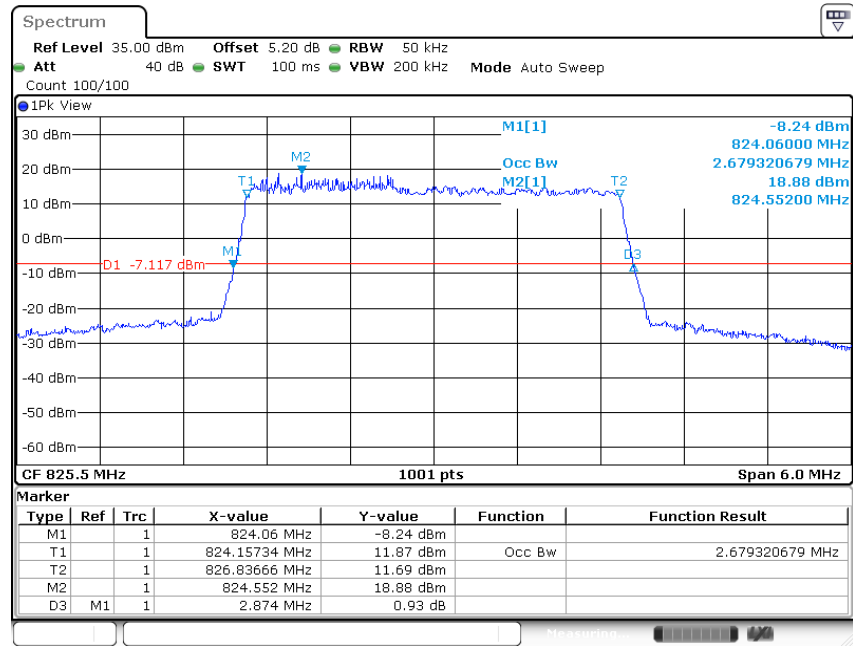
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**Band5-3MHz-QPSK-20635-15RB#0-2.691**



Date: 30 NOV 2020 20:57:53

**Band5-3MHz-16QAM-20415-15RB#0-2.679**

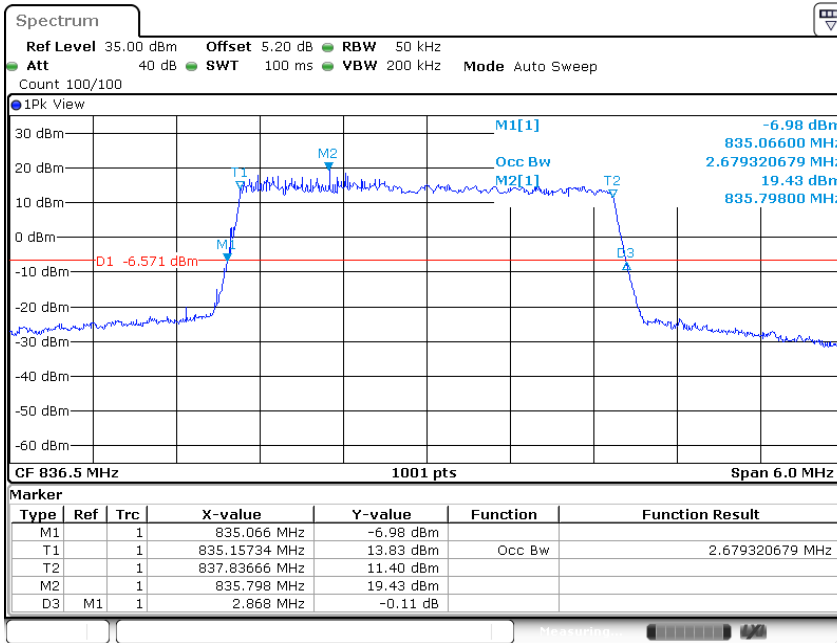


Date: 30 NOV 2020 20:56:37



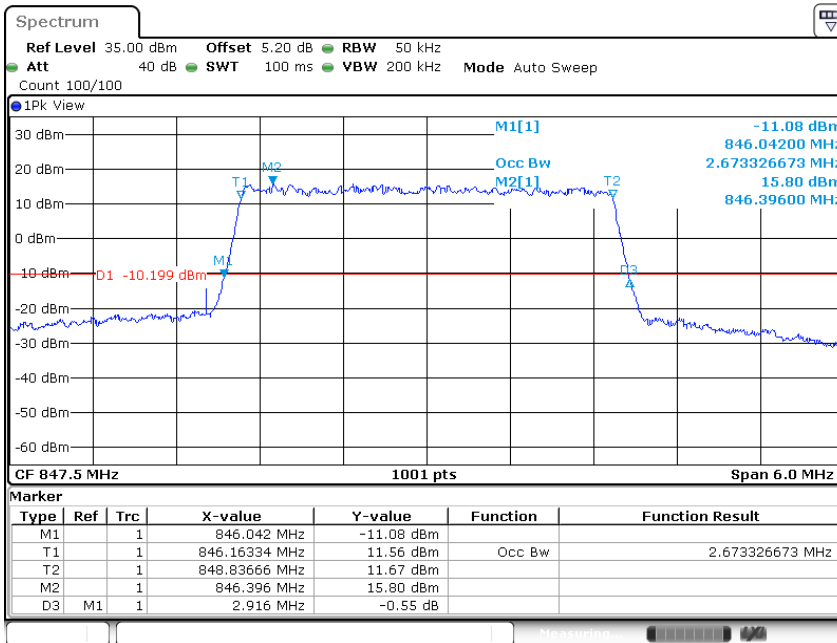
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**Band5-3MHz-16QAM-20525-15RB#0-2.679**



Date: 30 NOV 2020 20:57:27

**Band5-3MHz-16QAM-20635-15RB#0-2.673**

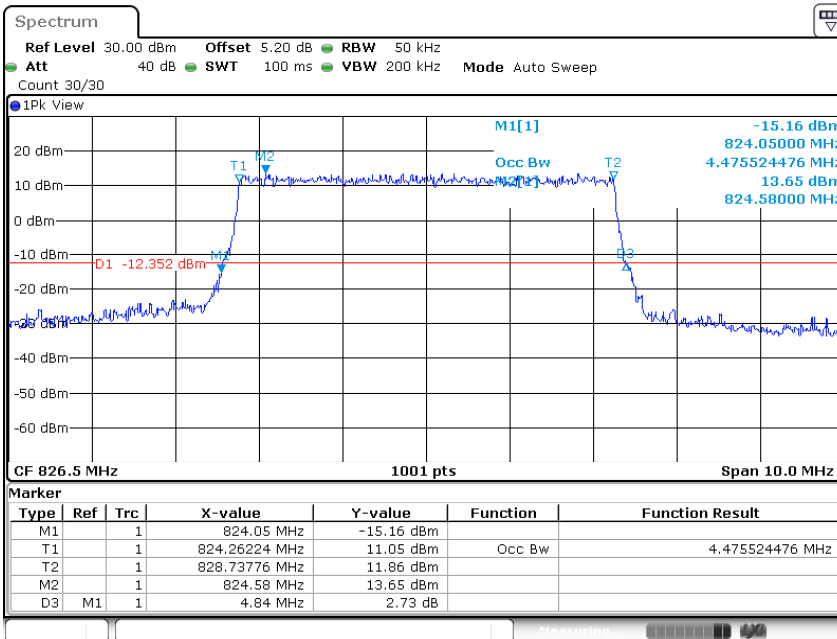


Date: 30 NOV 2020 20:58:18



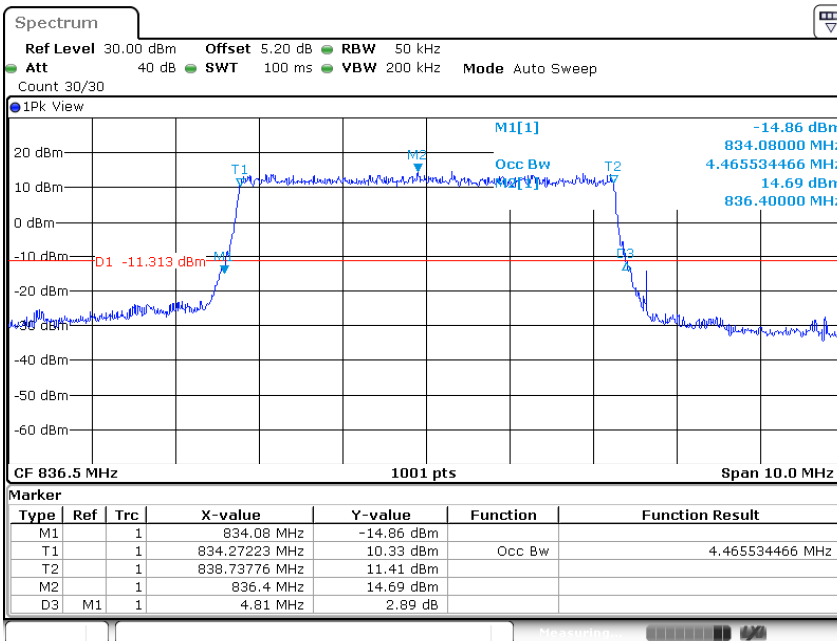
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**Band5-5MHz-QPSK-20425-25RB#0-4.476**



Date: 1.DEC.2020 08:58:52

**Band5-5MHz-QPSK-20525-25RB#0-4.466**



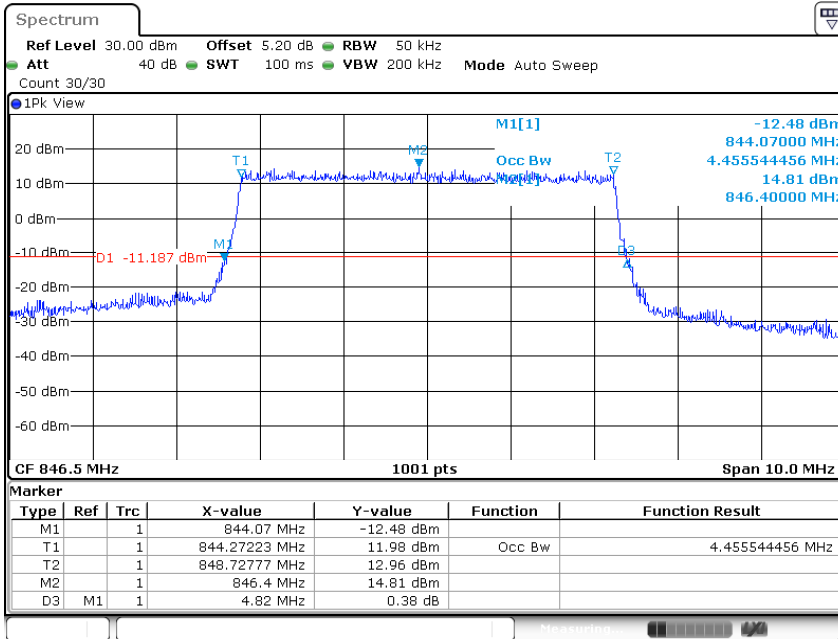
Date: 1.DEC.2020 08:59:27



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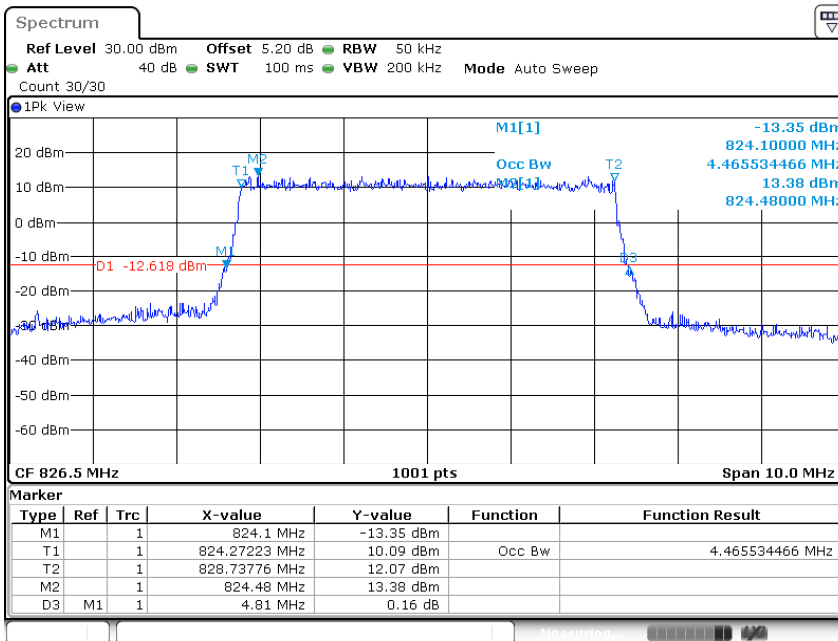
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**Band5-5MHz-QPSK-20625-25RB#0-4.456**



Date: 1.DEC.2020 09:00:02

**Band5-5MHz-16QAM-20425-25RB#0-4.466**

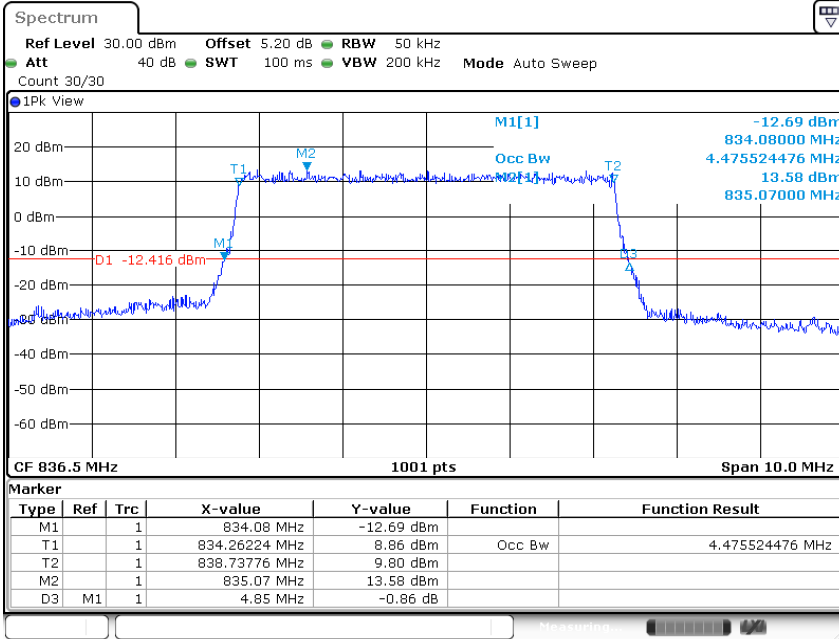


Date: 1.DEC.2020 08:59:11



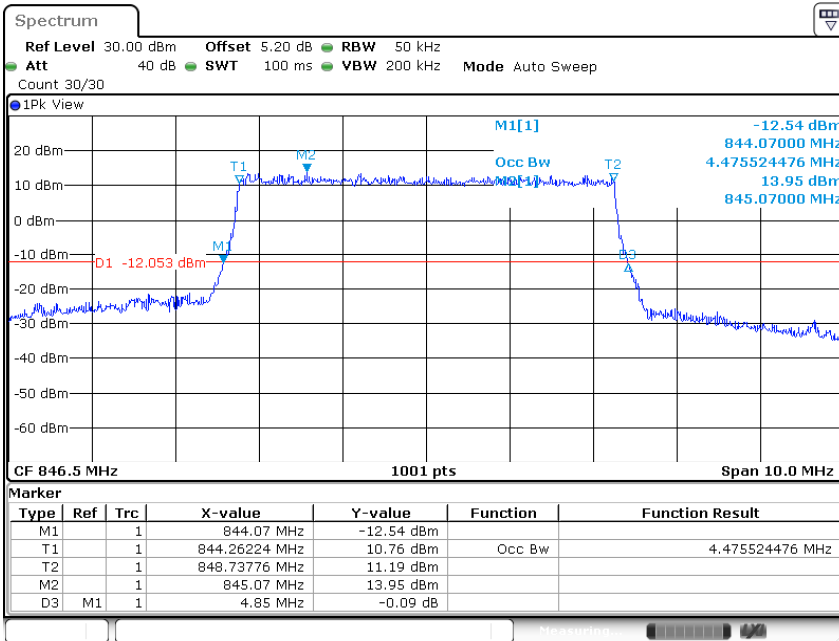
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**Band5-5MHz-16QAM-20525-25RB#0-4.476**



Date: 1.DEC.2020 08:59:40

**Band5-5MHz-16QAM-20625-25RB#0-4.476**



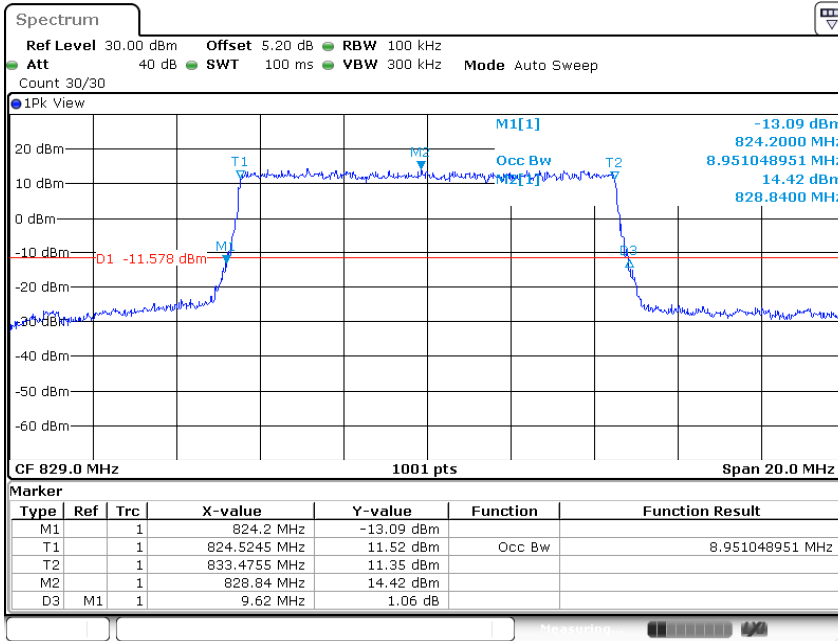
Date: 1.DEC.2020 09:00:15



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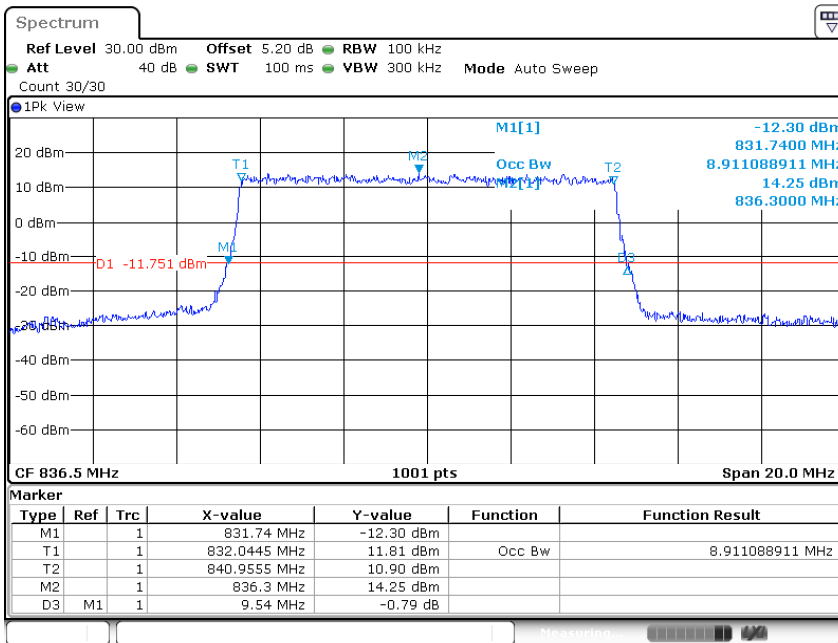
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**Band5-10MHz-QPSK-20450-50RB#0-8.951**



Date: 1.DEC.2020 09:00:32

**Band5-10MHz-QPSK-20525-50RB#0-8.911**



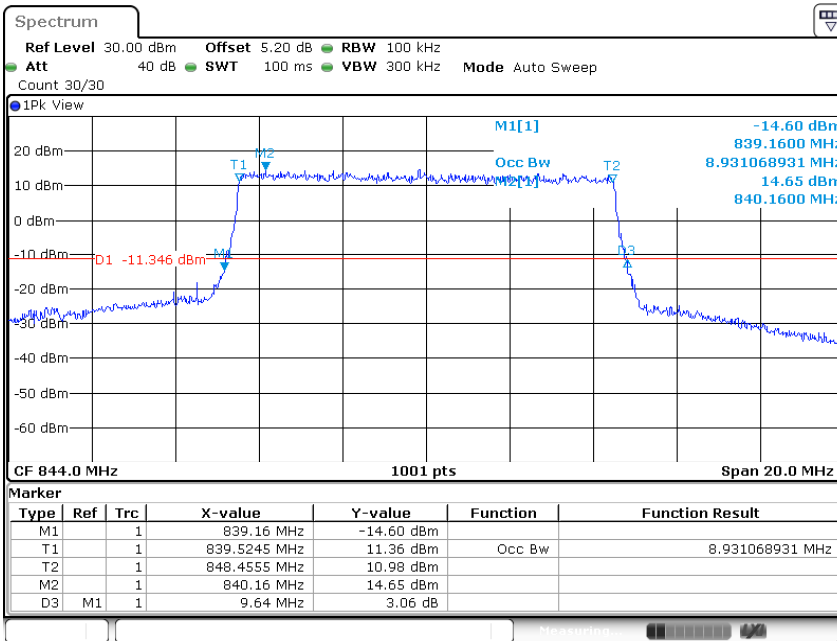
Date: 1.DEC.2020 09:00:58



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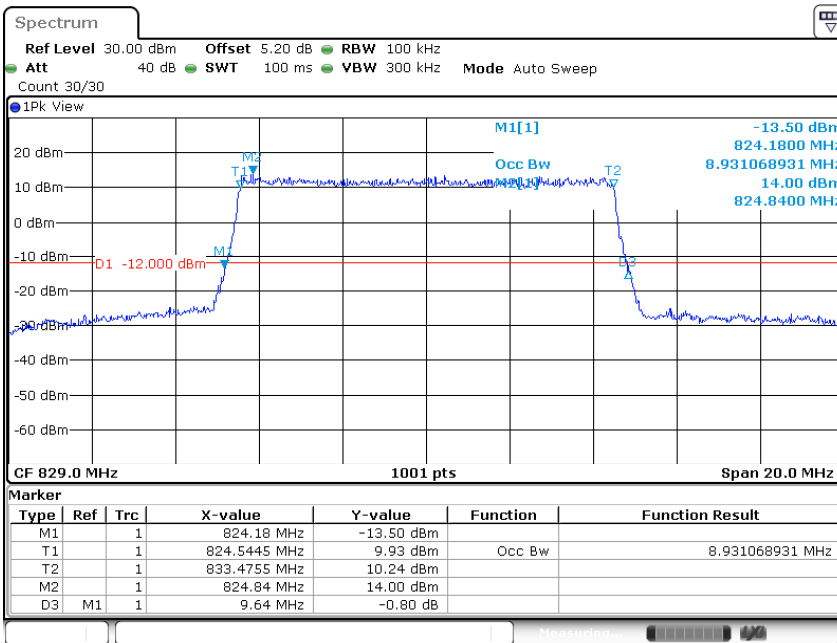


**Band5-10MHz-QPSK-20600-50RB#0-8.931**



Date: 1.DEC.2020 09:01:23

**Band5-10MHz-16QAM-20450-50RB#0-8.931**



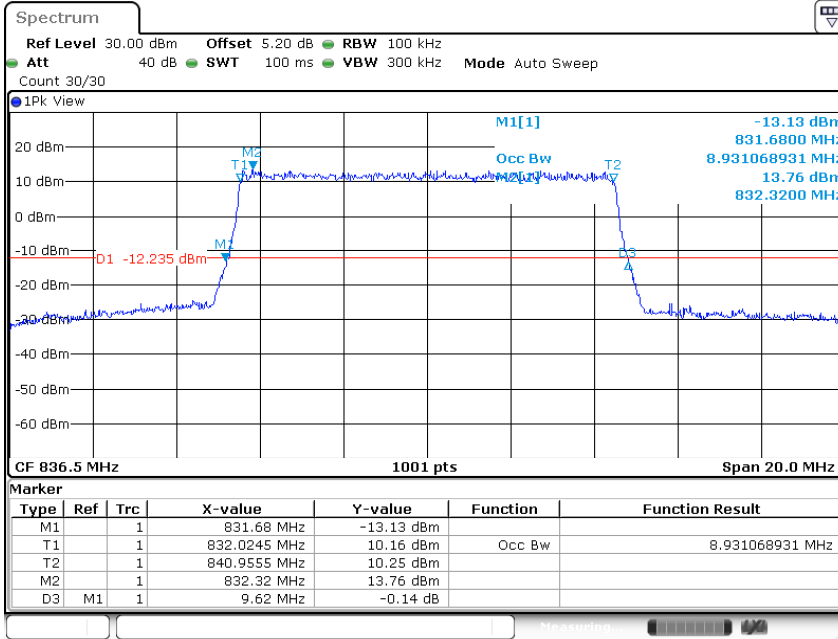
Date: 1.DEC.2020 09:00:45



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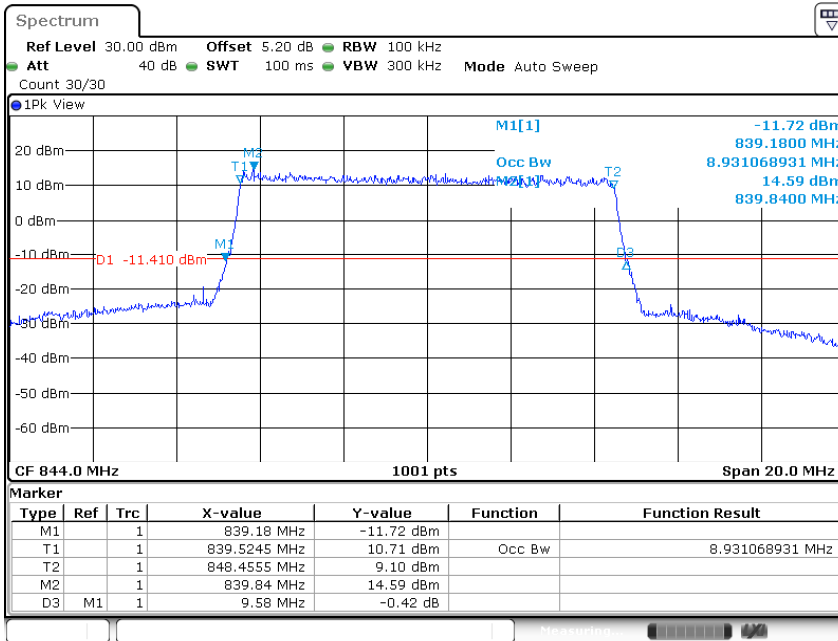
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**Band5-10MHz-16QAM-20525-50RB#0-8.931**



Date: 1.DEC.2020 09:01:11

**Band5-10MHz-16QAM-20600-50RB#0-8.931**



Date: 1.DEC.2020 09:01:36

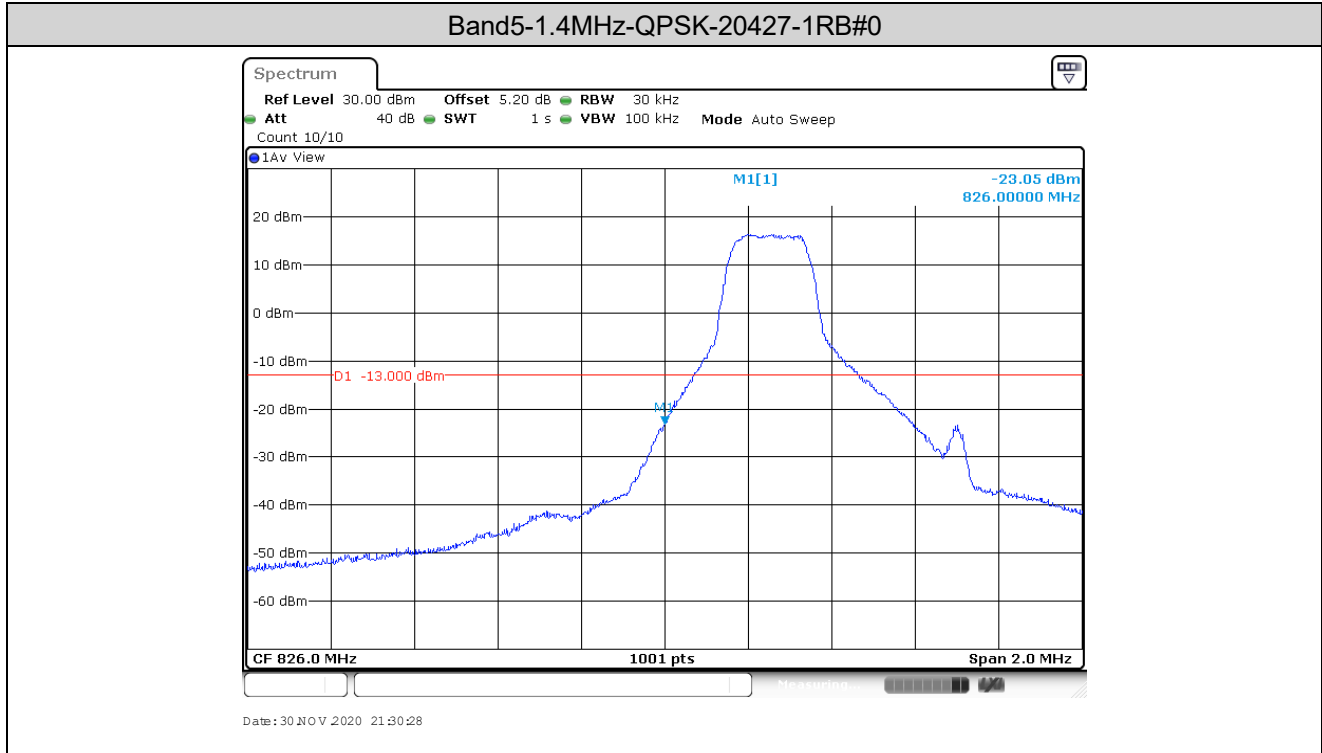


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## 5. Band Edge Compliance

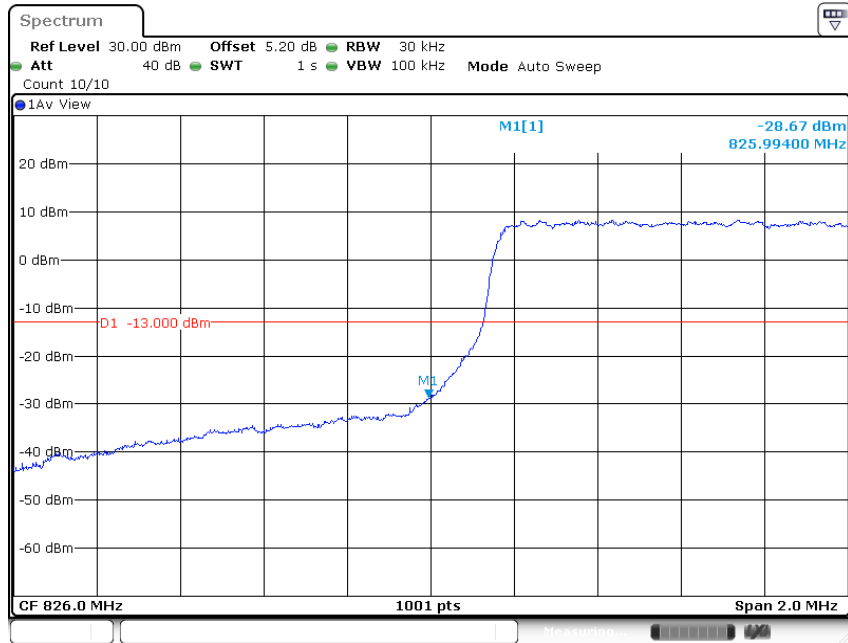
### 5.1. Test Plots



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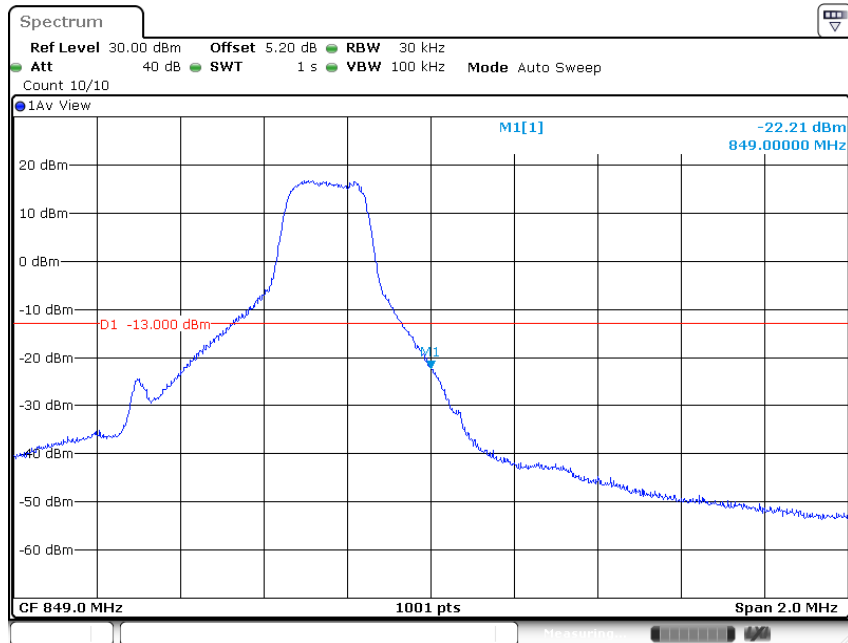
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**Band5-1.4MHz-QPSK-20427-6RB#0**



Date: 30 NOV 2020 21:32:05

**Band5-1.4MHz-QPSK-20643-1RB#5**

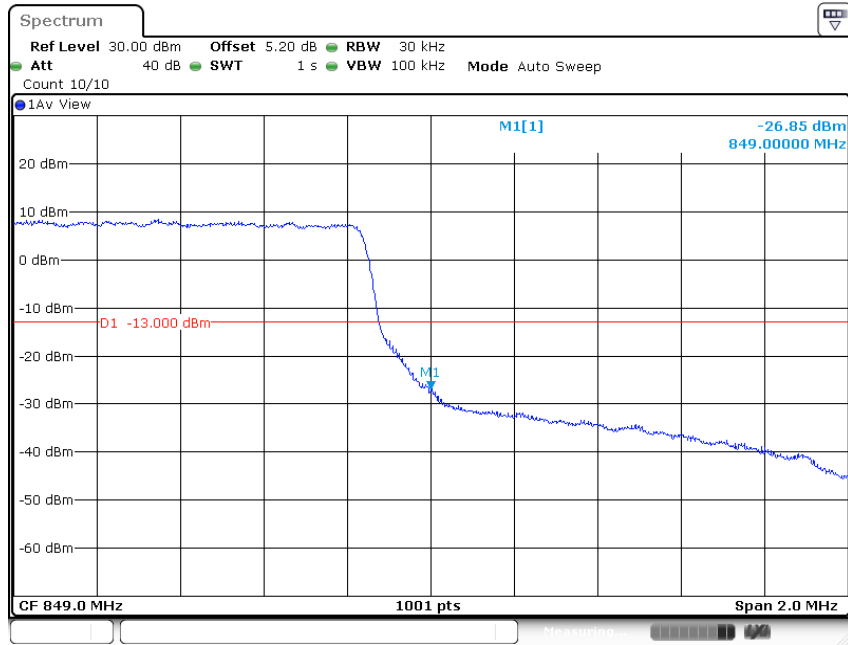


Date: 30 NOV 2020 21:34:16



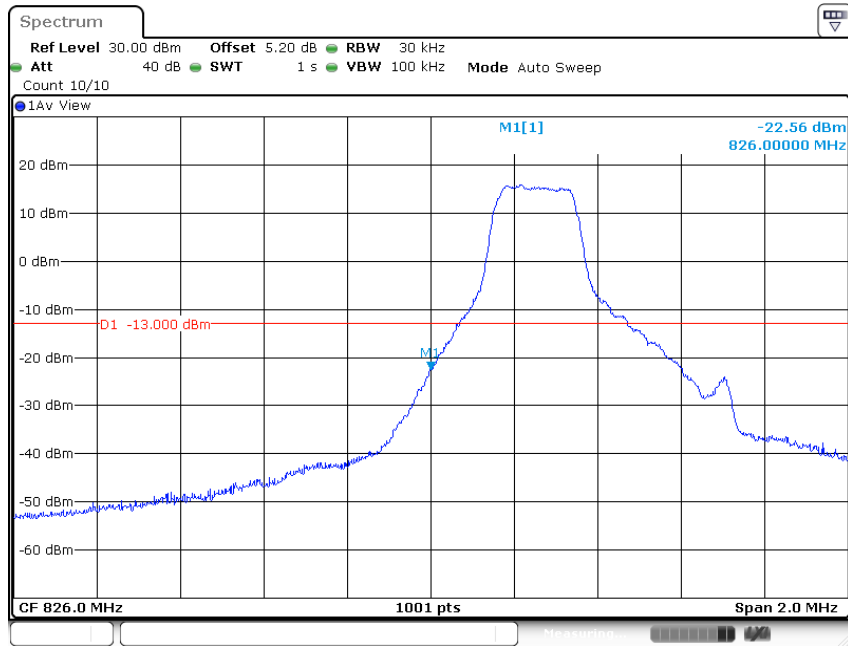
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**Band5-1.4MHz-QPSK-20643-6RB#0**



Date: 30 NOV 2020 21:35:54

**Band5-1.4MHz-16QAM-20427-1RB#0**

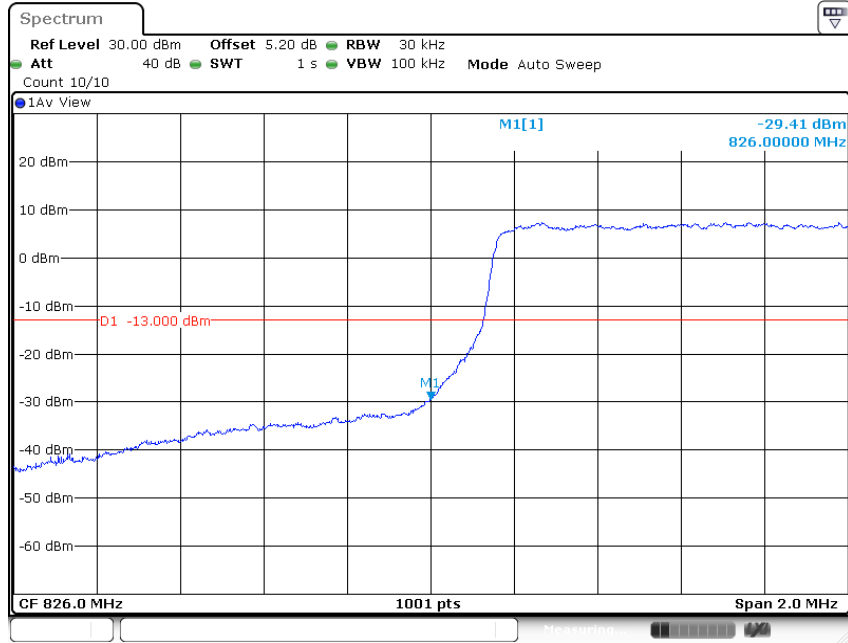


Date: 30 NOV 2020 21:31:39



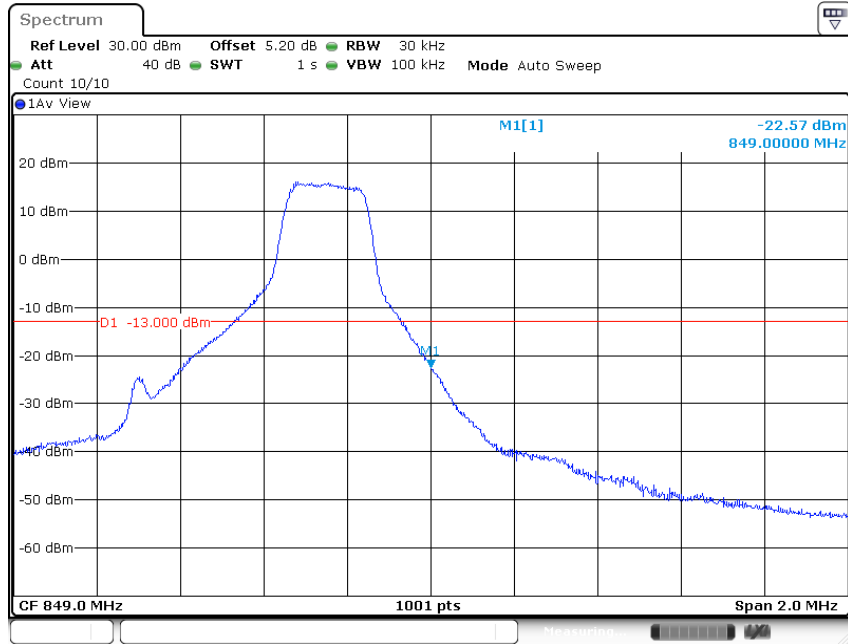
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**Band5-1.4MHz-16QAM-20427-6RB#0**



Date: 30 NOV 2020 21:32:31

**Band5-1.4MHz-16QAM-20643-1RB#5**

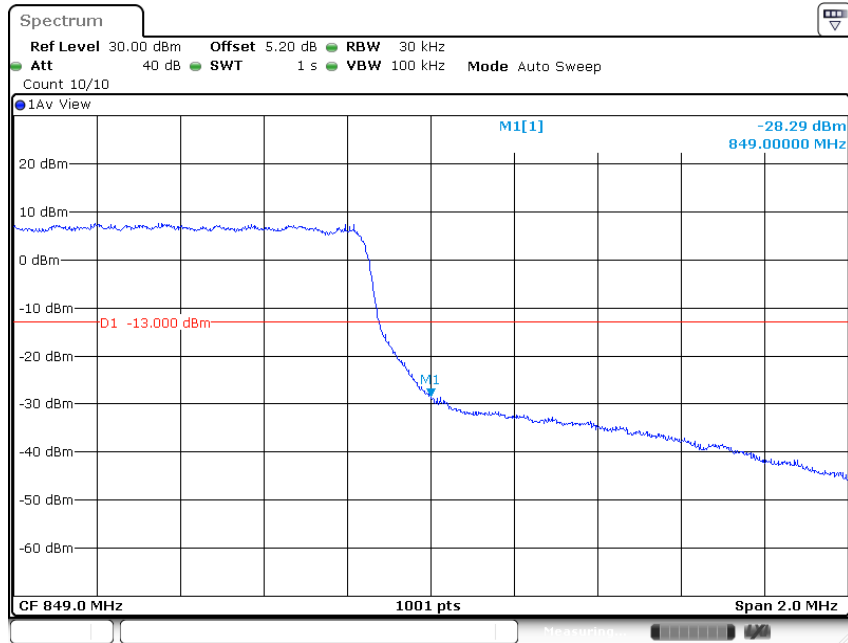


Date: 30 NOV 2020 21:35:28



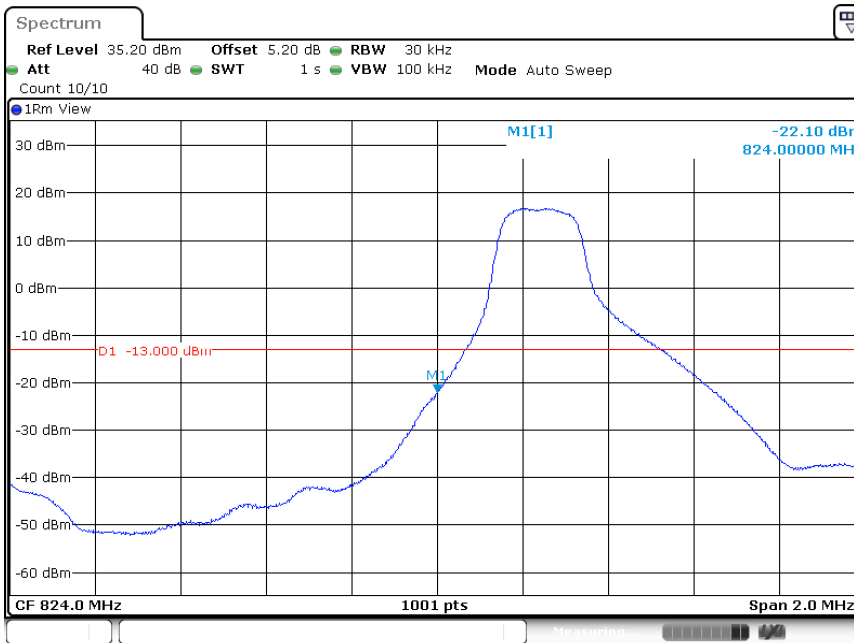
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**Band5-1.4MHz-16QAM-20643-6RB#0**



Date: 30 NOV 2020 21:36:20

**Band5-3MHz-QPSK-20415-1RB#0**

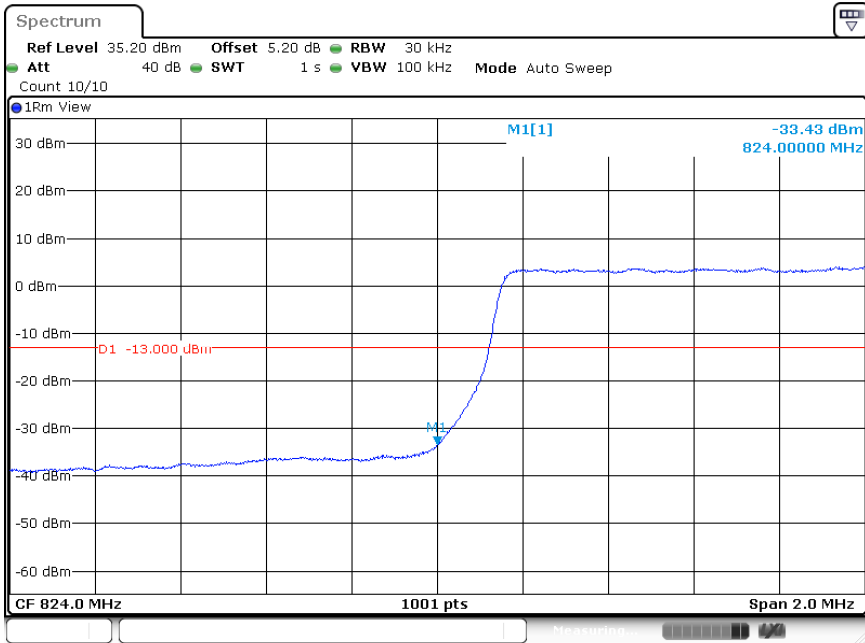


Date: 8 DEC.2020 21:39:29



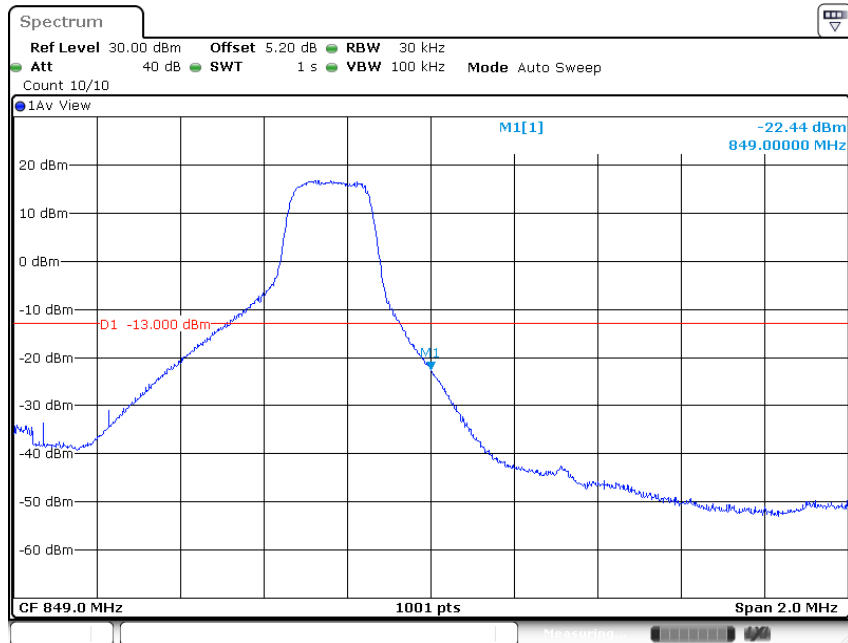
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**Band5-3MHz-QPSK-20415-15RB#0**



Date: 8 DEC.2020 21:40:10

**Band5-3MHz-QPSK-20635-1RB#14**



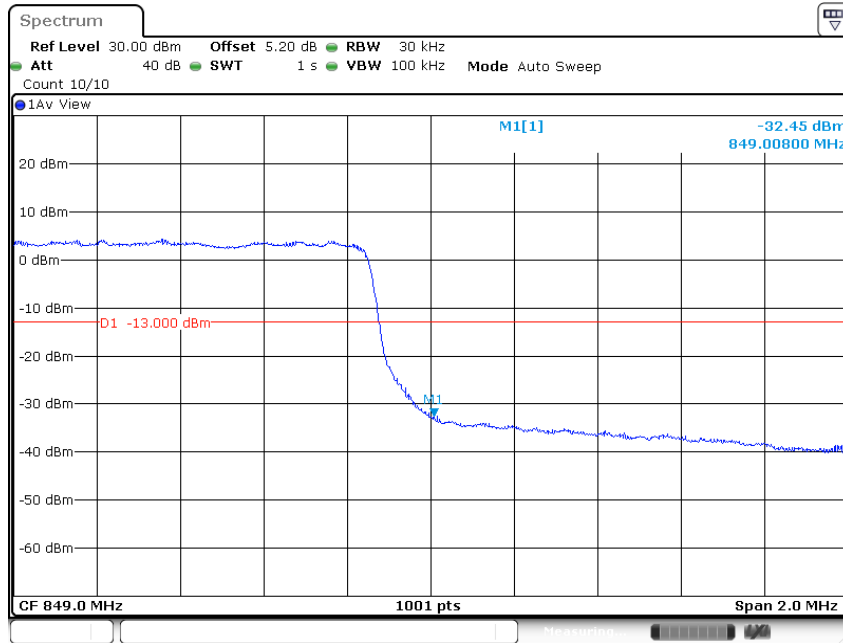
Date: 30 NOV 2020 21:39:34



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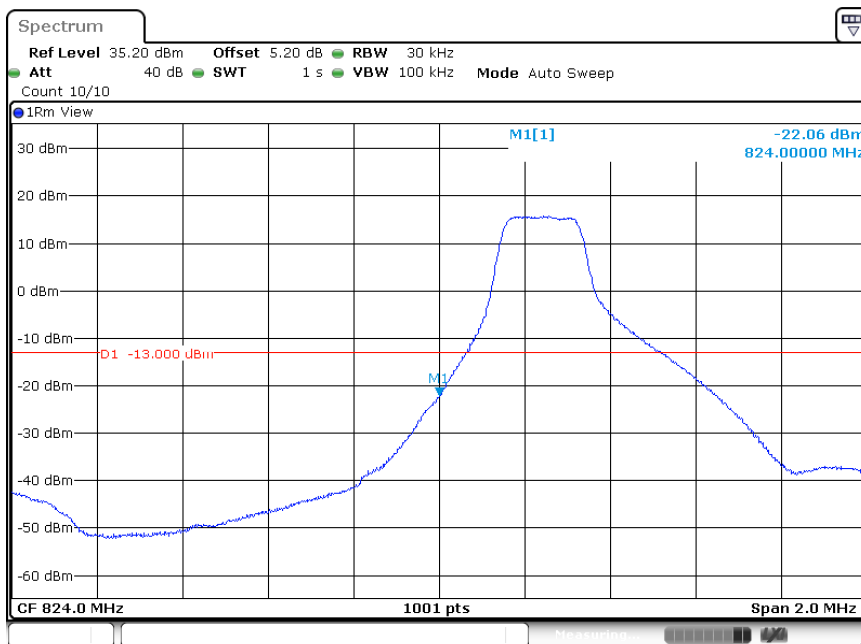


**Band5-3MHz-QPSK-20635-15RB#0**



Date: 30 NOV 2020 21:40:26

**Band5-3MHz-16QAM-20415-1RB#0**

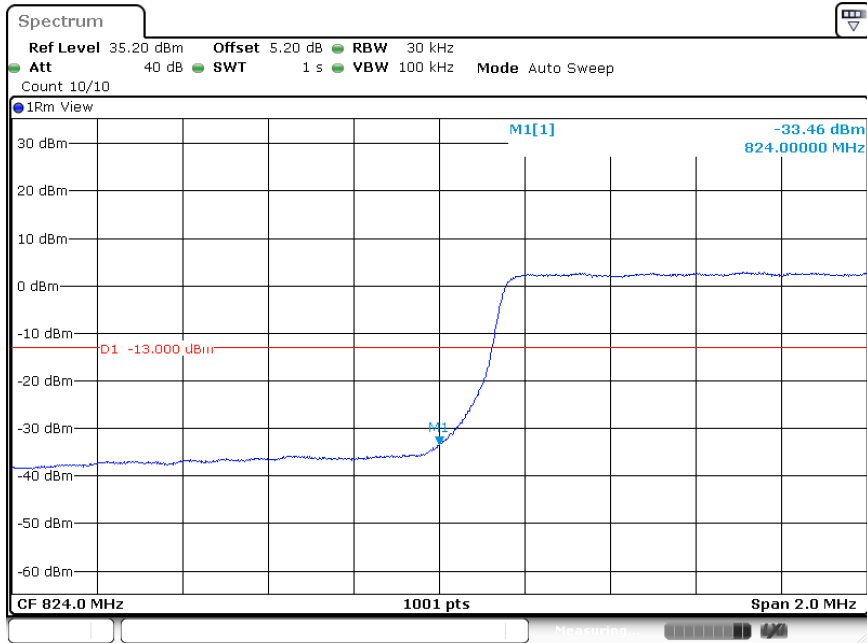


Date: 8 DEC.2020 21:39:49



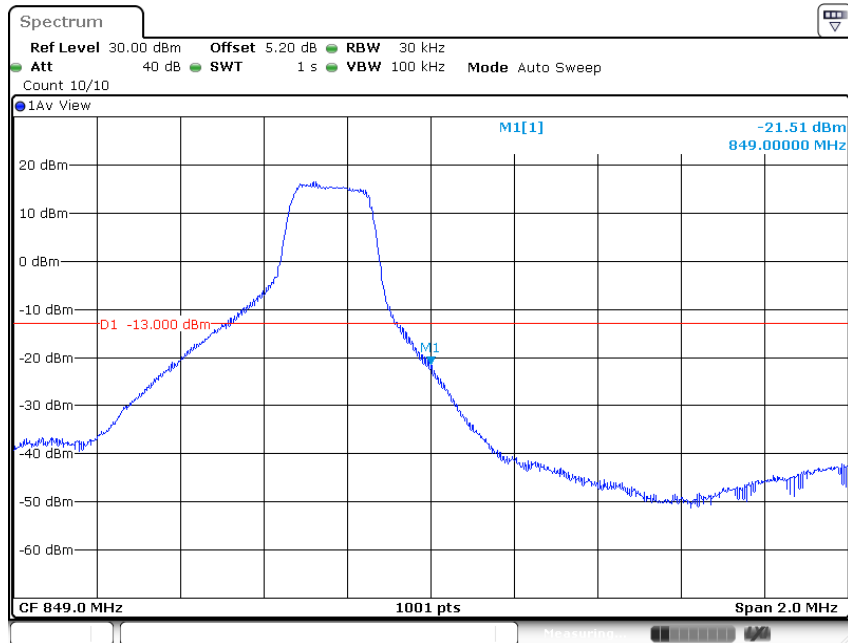
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**Band5-3MHz-16QAM-20415-15RB#0**



Date: 8 DEC.2020 21:40:30

**Band5-3MHz-16QAM-20635-1RB#14**

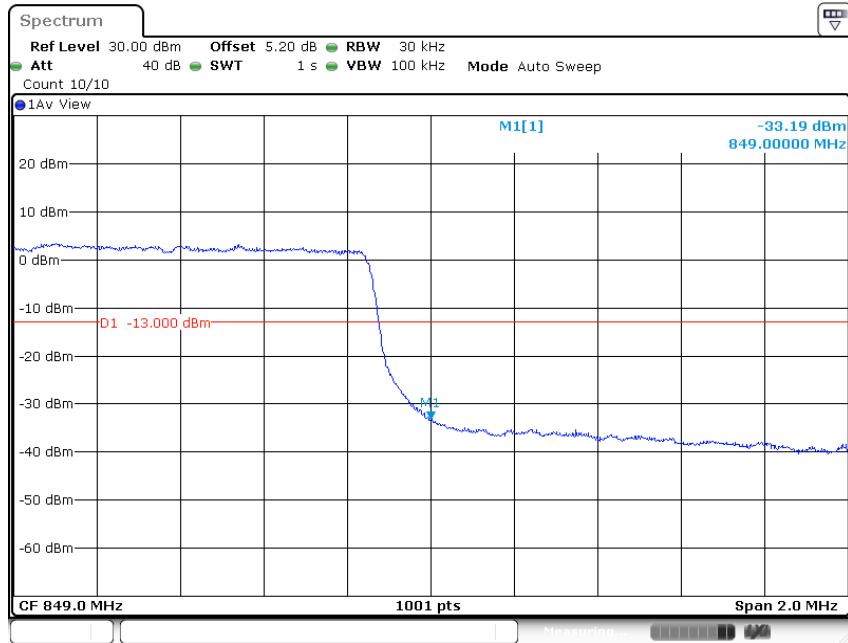


Date: 30 NOV 2020 21:40:00



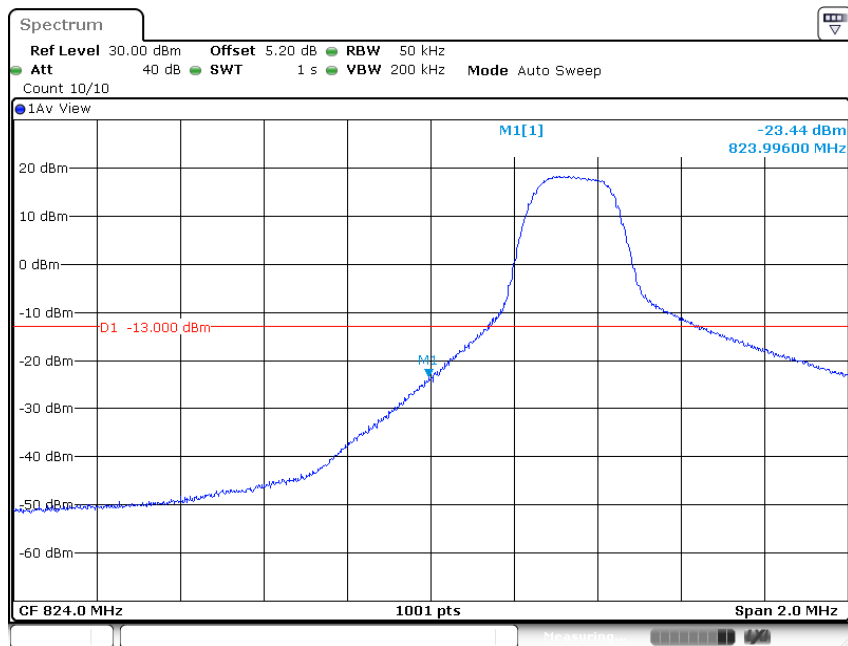
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**Band5-3MHz-16QAM-20635-15RB#0**



Date: 30 NOV 2020 21:40:53

**Band5-5MHz-QPSK-20425-1RB#0**

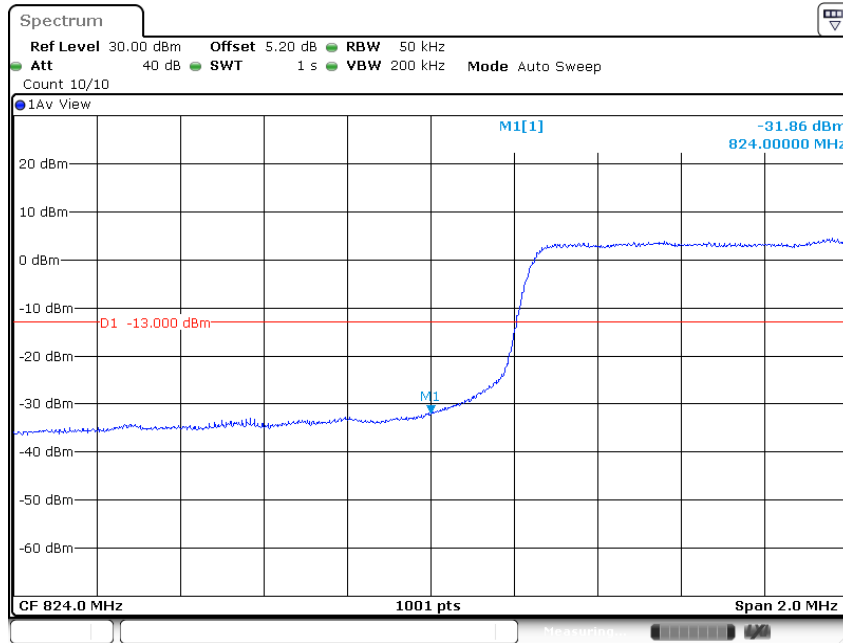


Date: 30 NOV 2020 21:42:42

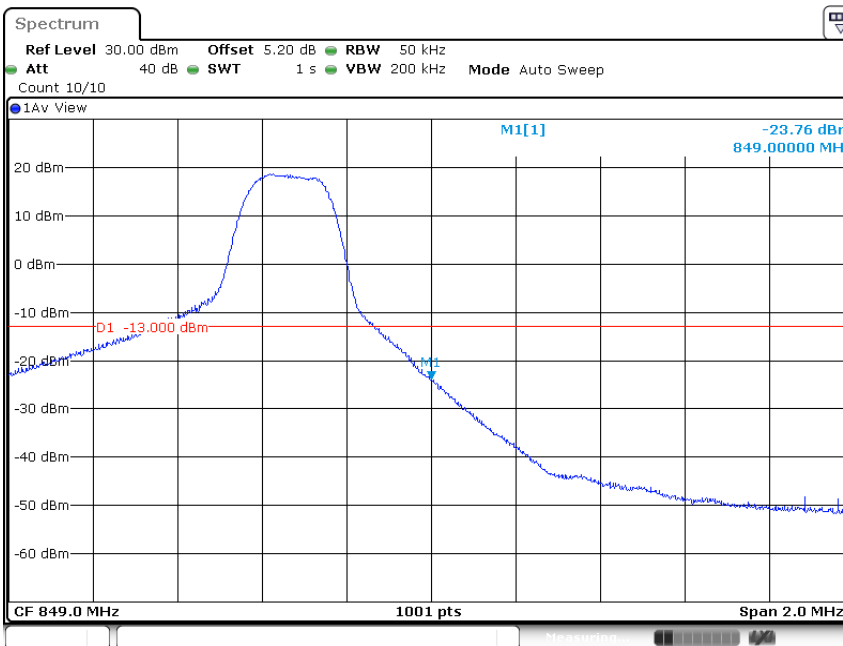


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**Band5-5MHz-QPSK-20425-25RB#0**



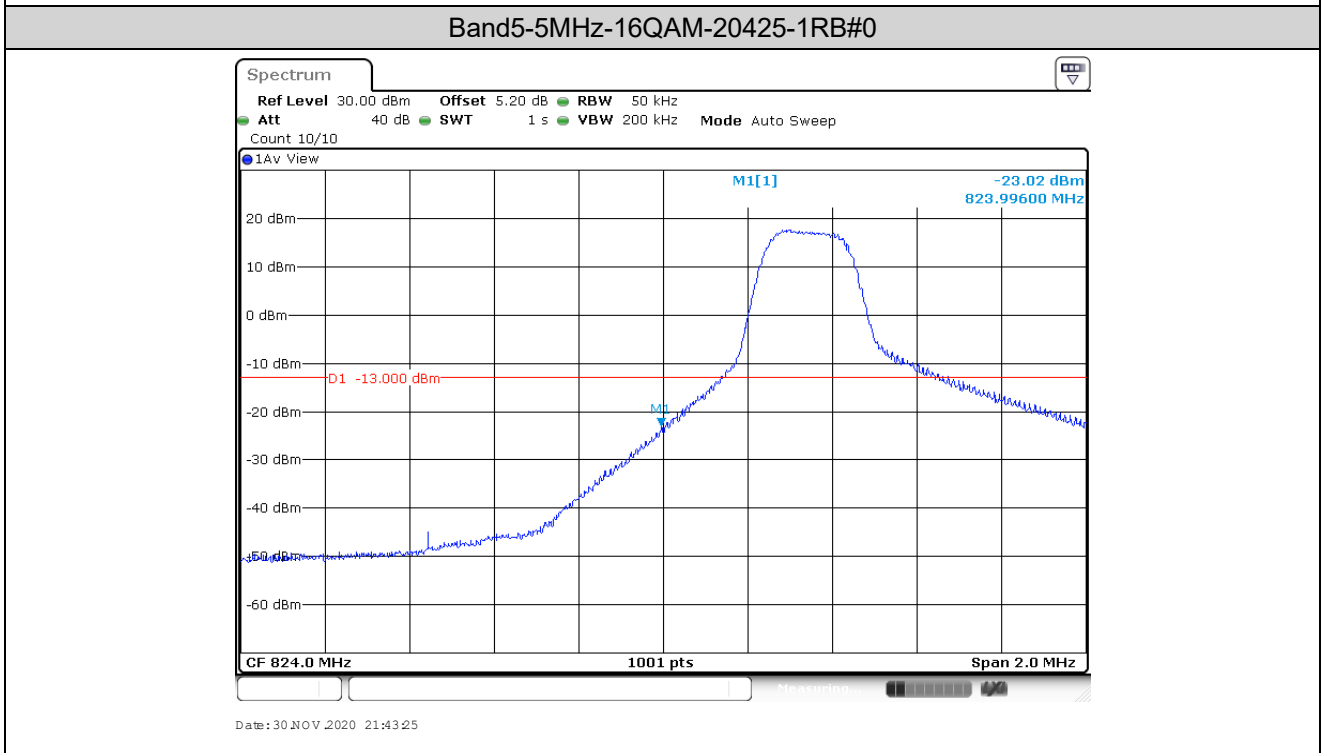
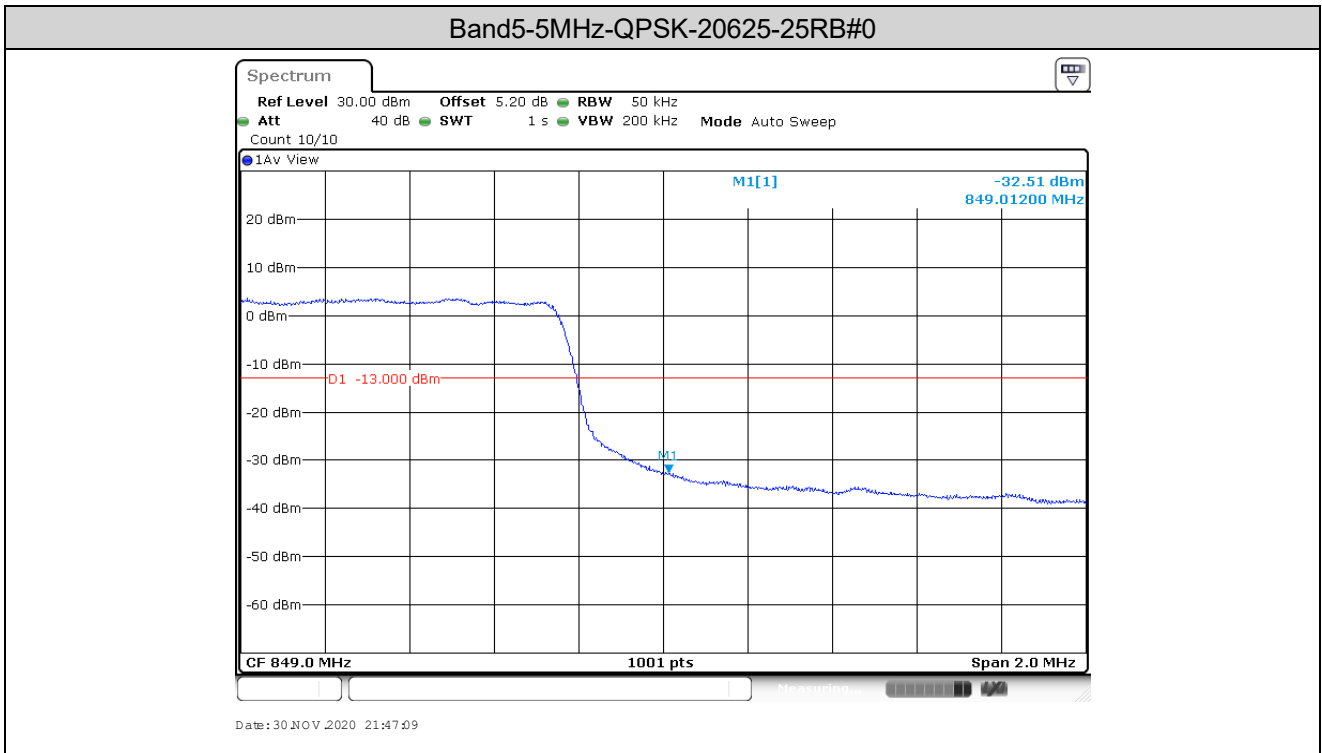
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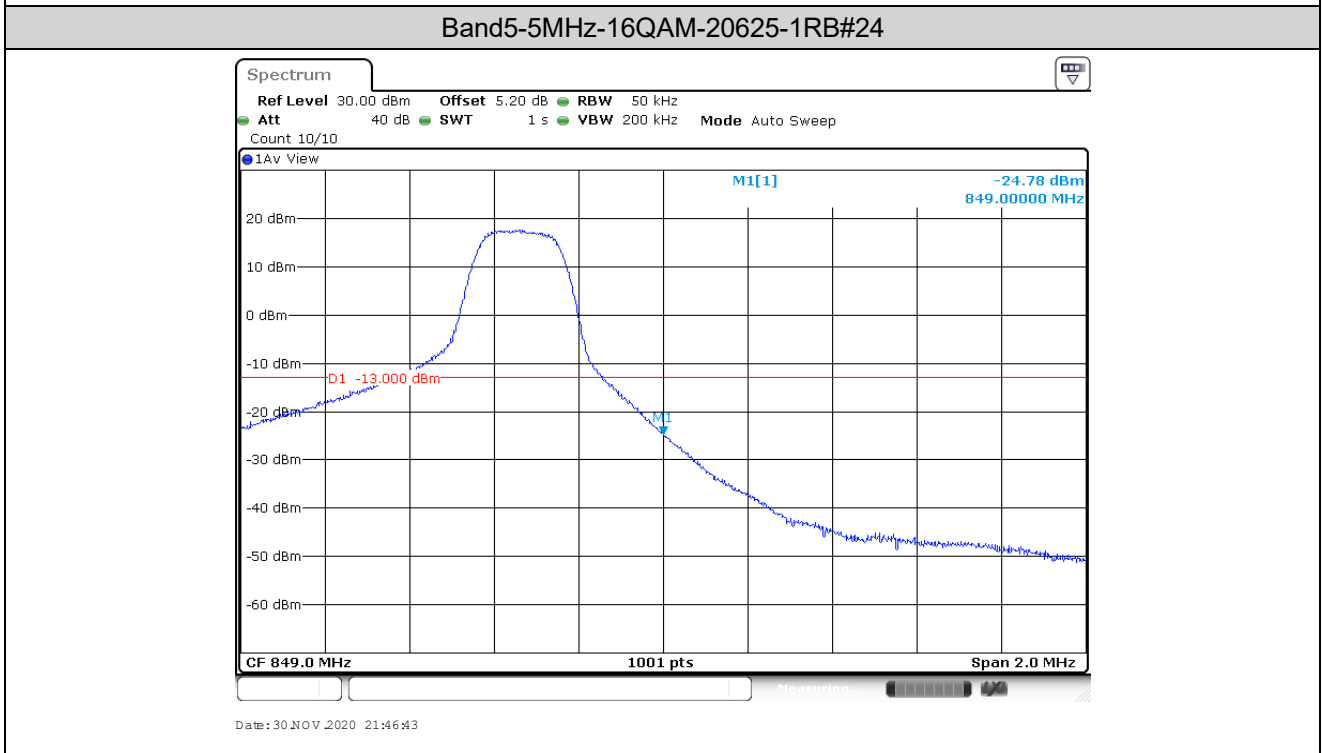
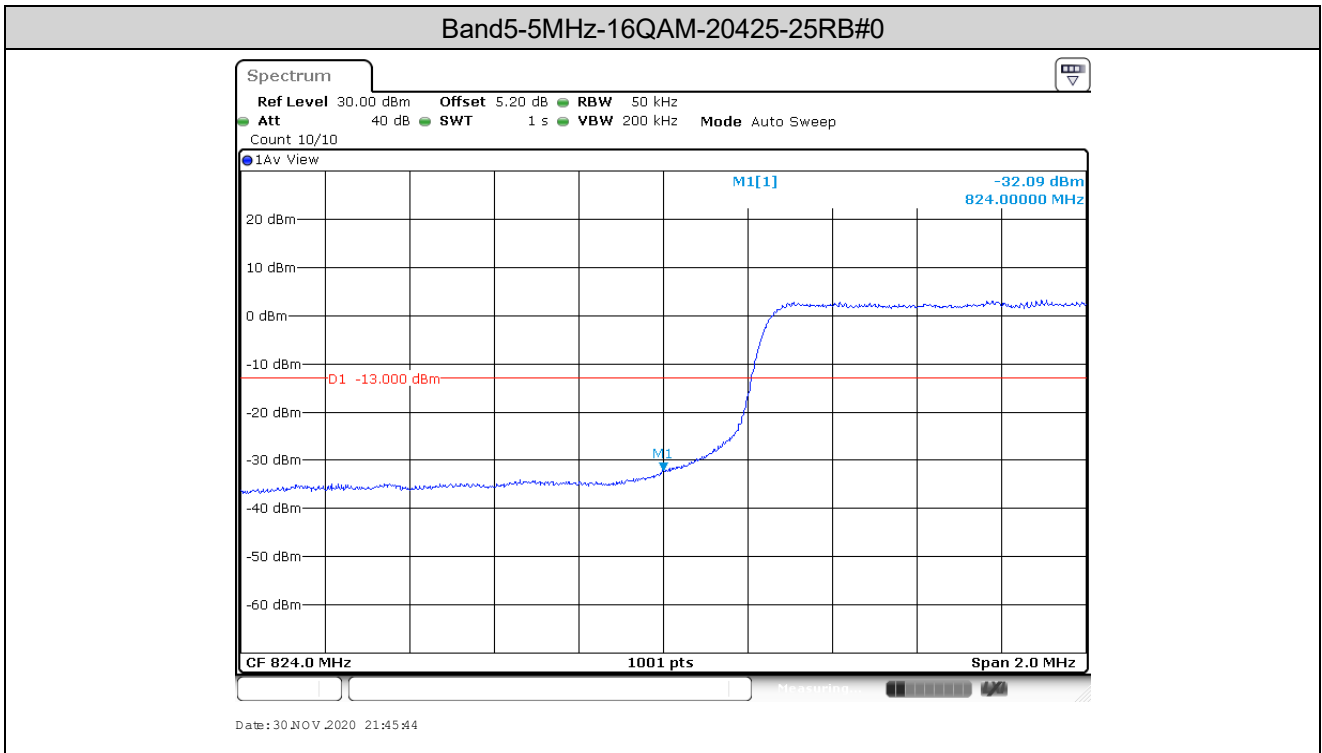
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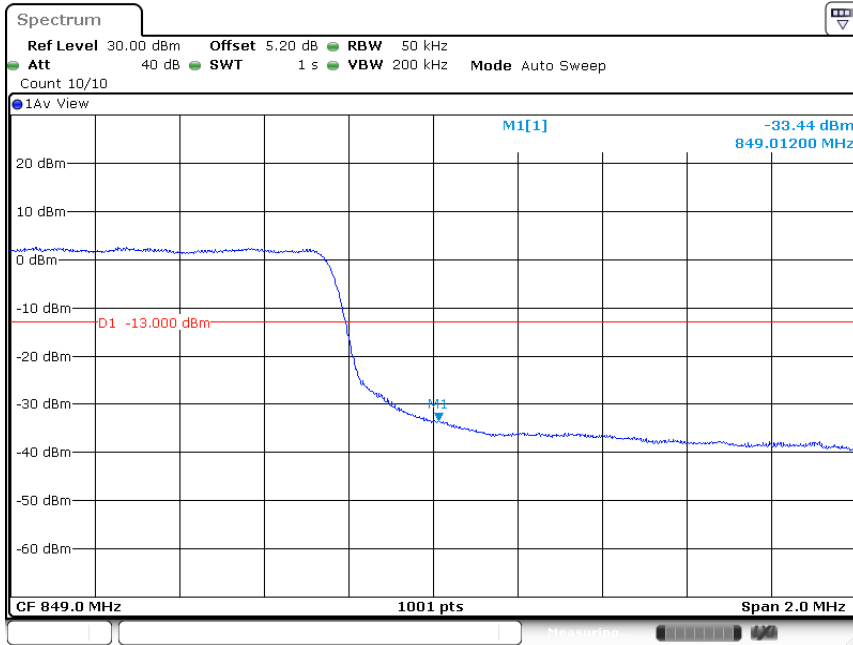
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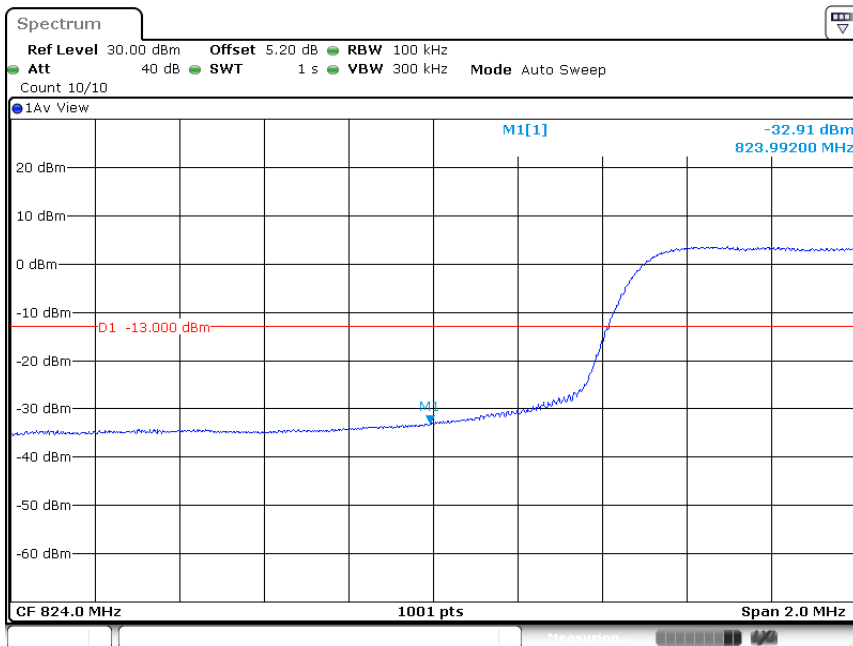
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Band5-5MHz-16QAM-20625-25RB#0



Date: 30 NOV 2020 21:47:35

Band5-10MHz-QPSK-20450-1RB#0

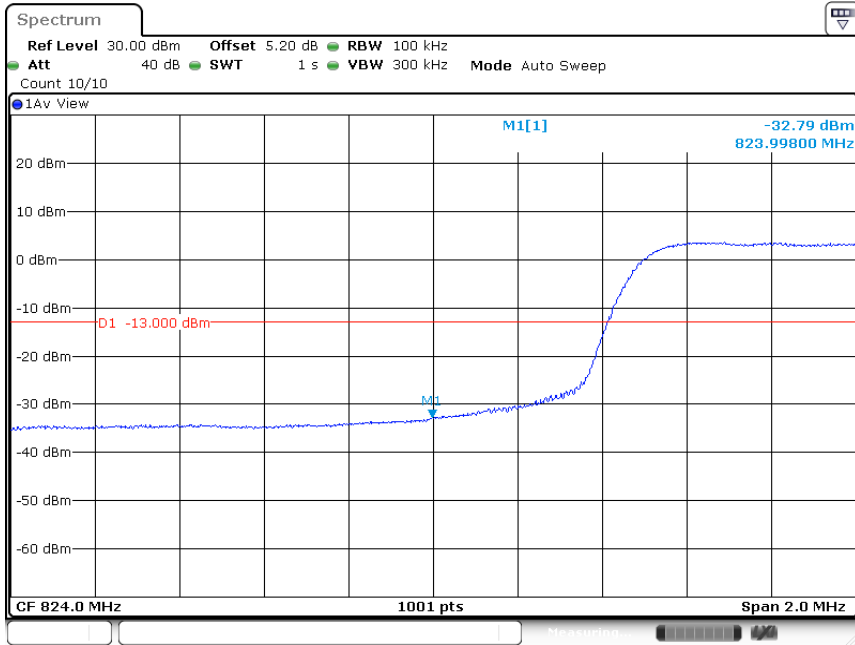


Date: 30 NOV 2020 21:48:33



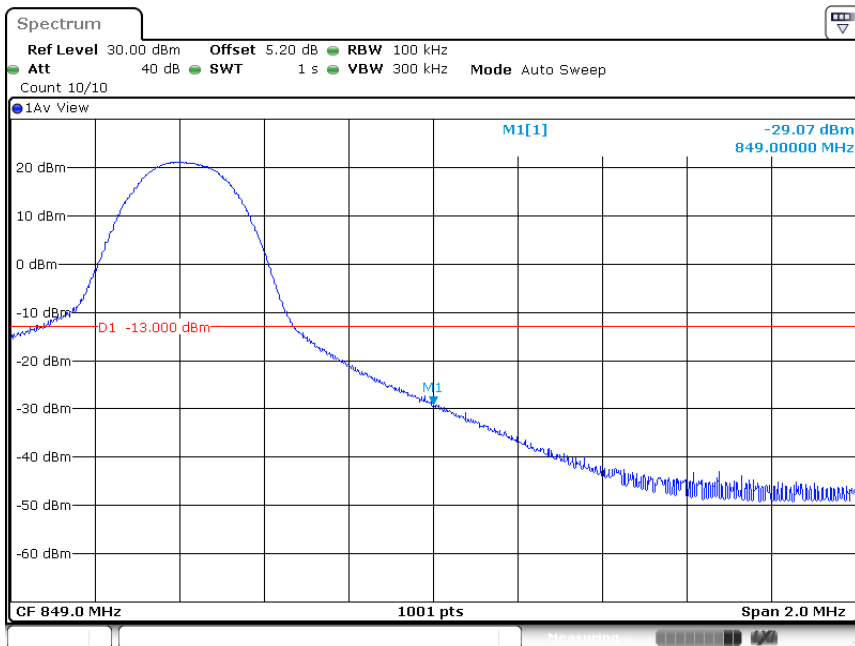
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**Band5-10MHz-QPSK-20450-50RB#0**



Date: 30 NOV 2020 21:50:20

**Band5-10MHz-QPSK-20600-1RB#49**



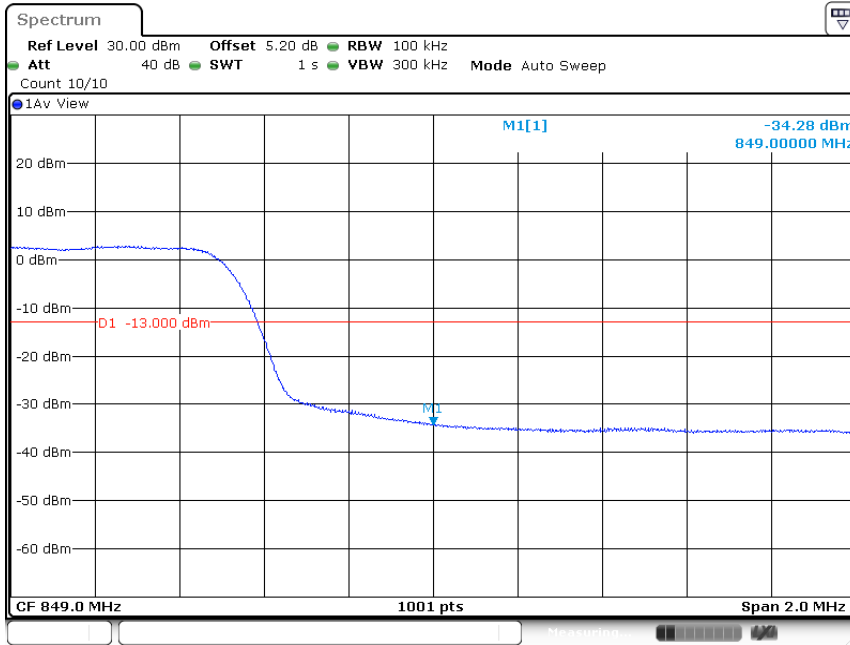
Date: 30 NOV 2020 21:51:47



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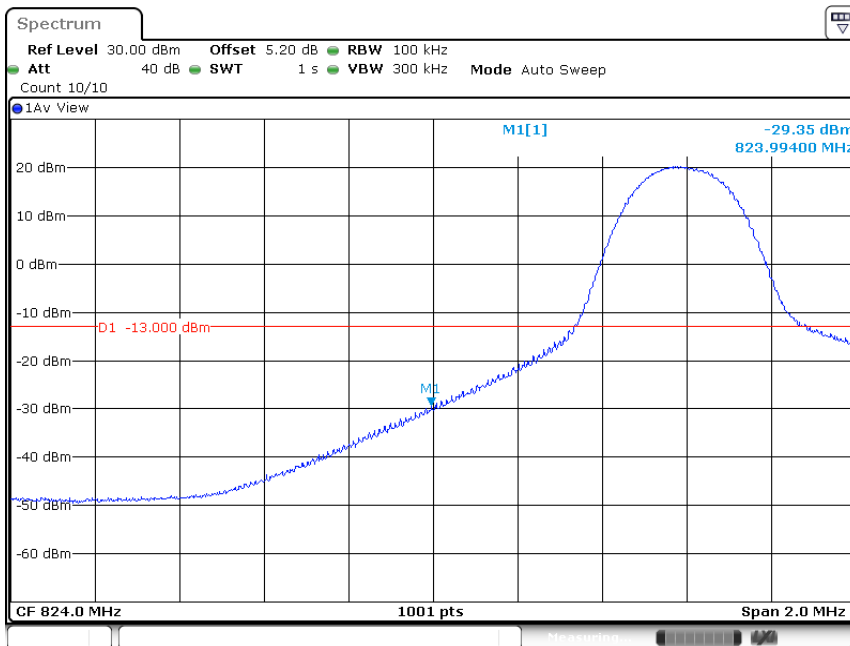


**Band5-10MHz-QPSK-20600-50RB#0**



Date: 30 NOV 2020 21:52:40

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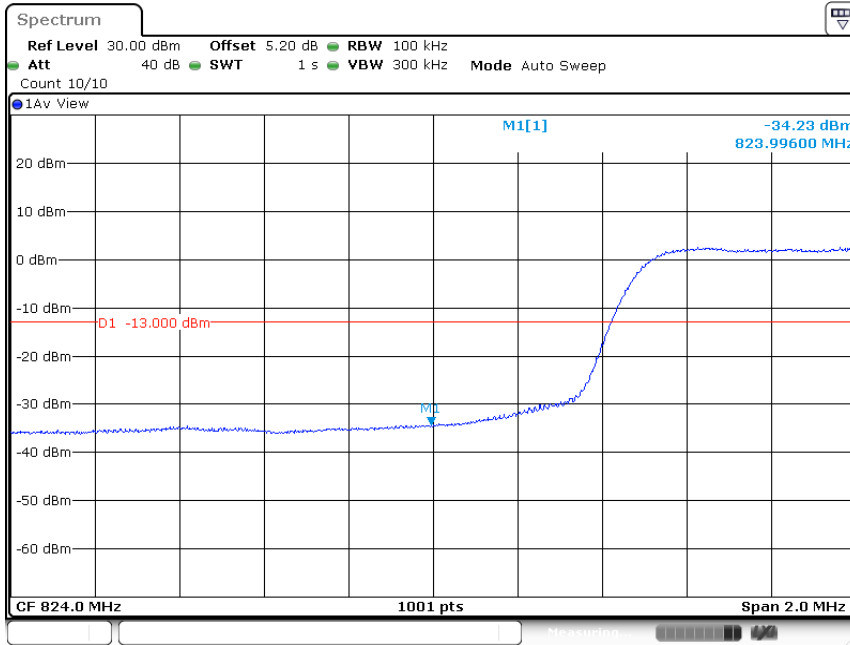


Date: 30 NOV 2020 21:48:59



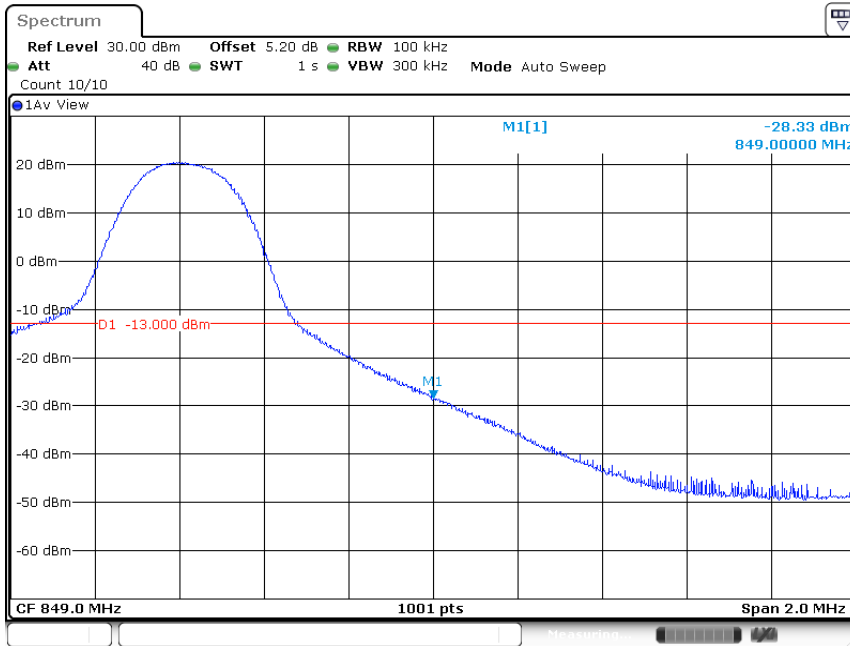
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**Band5-10MHz-16QAM-20450-50RB#0**



Date: 30 NOV 2020 21:51:14

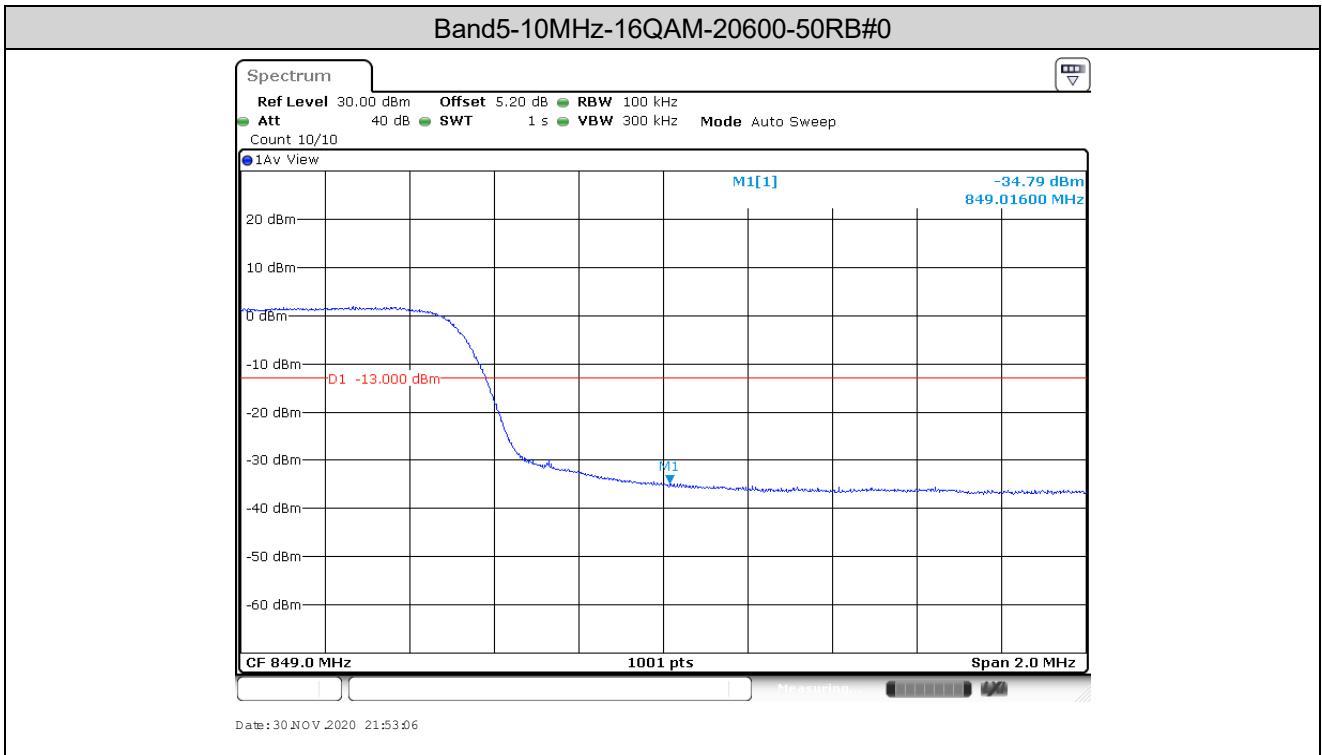
**Band5-10MHz-16QAM-20600-1RB#49**



Date: 30 NOV 2020 21:52:13



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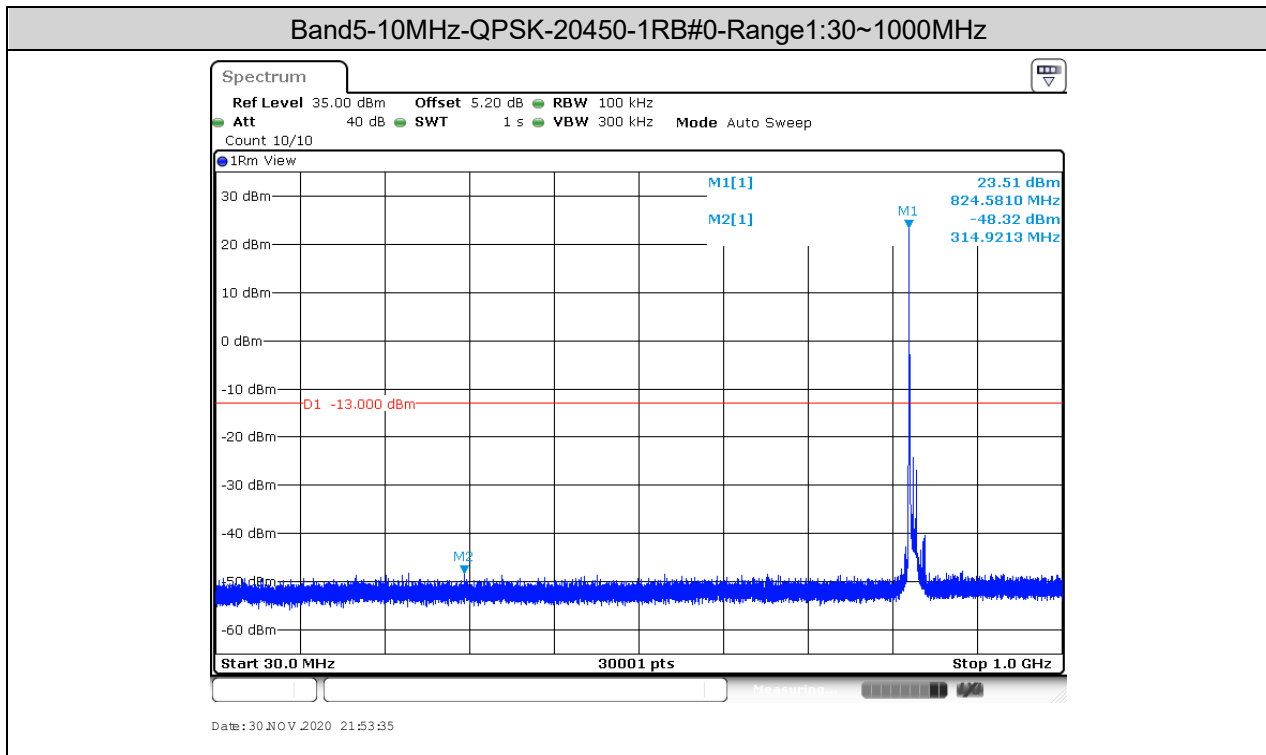
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## 6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (\text{Span} / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

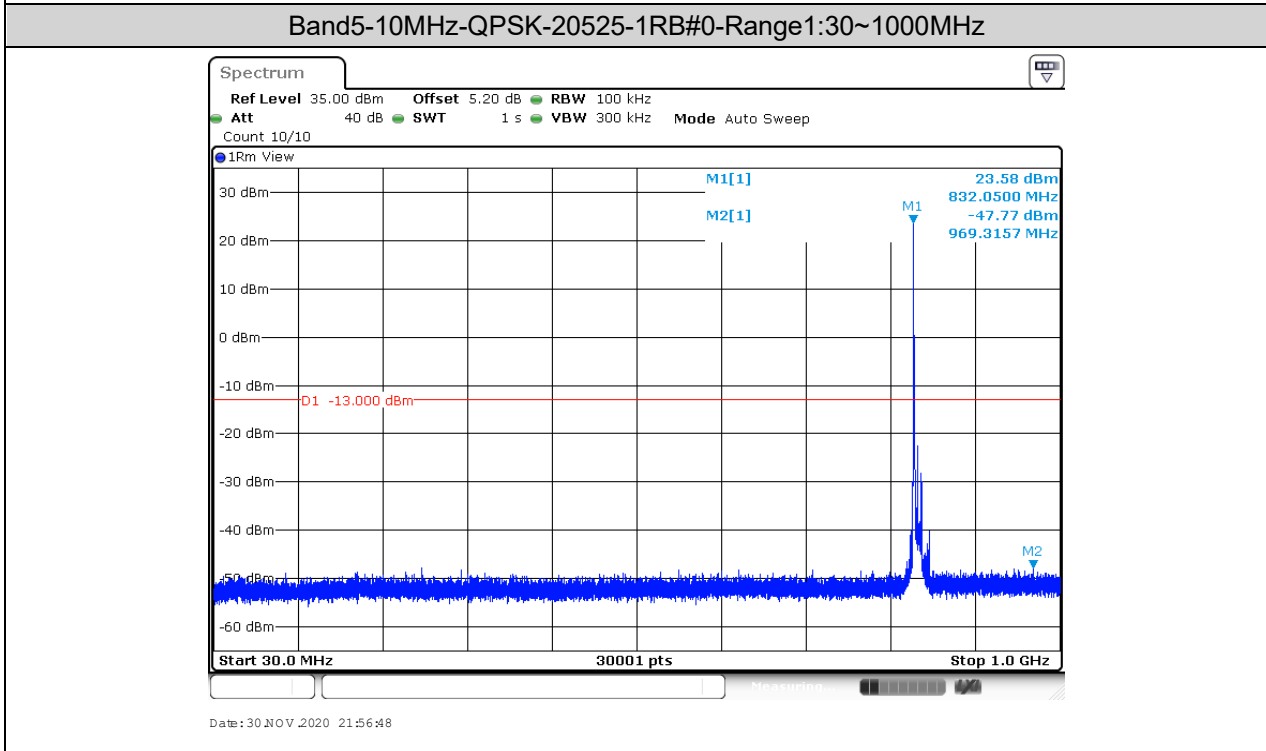
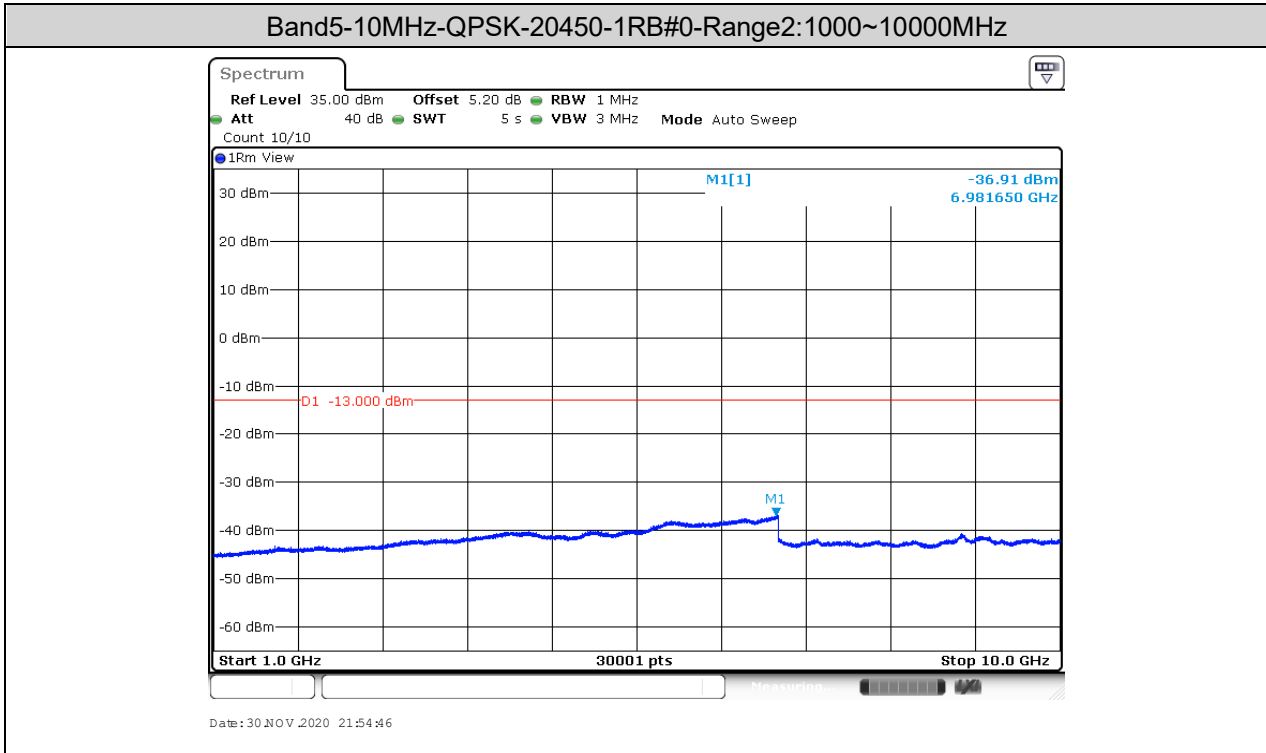
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots



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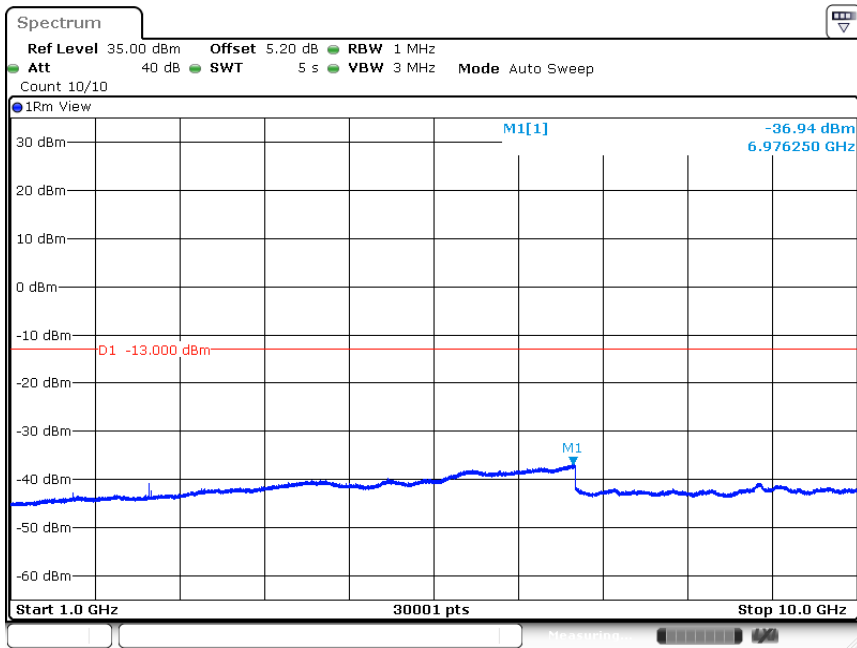


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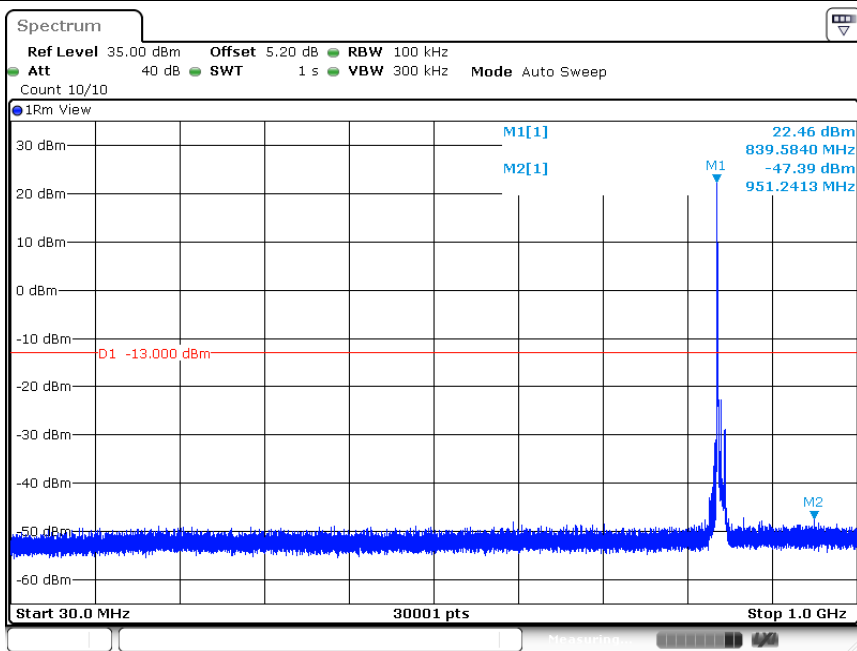
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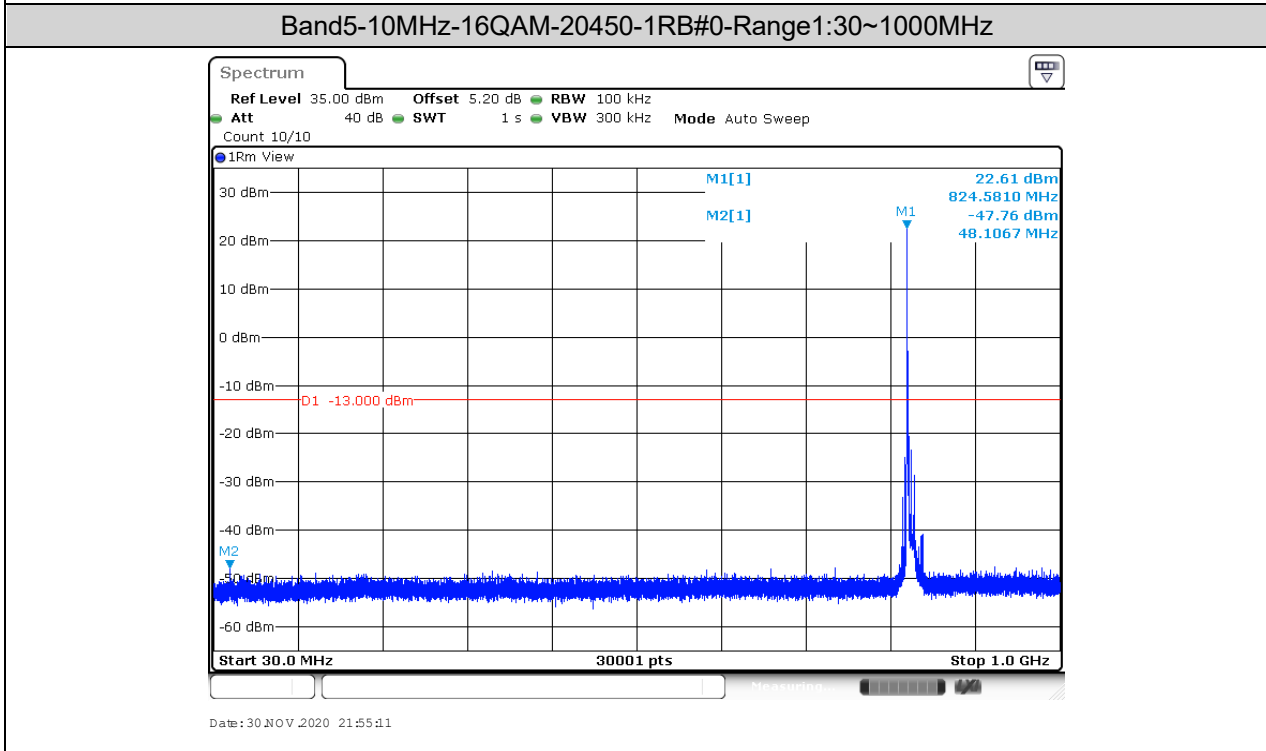
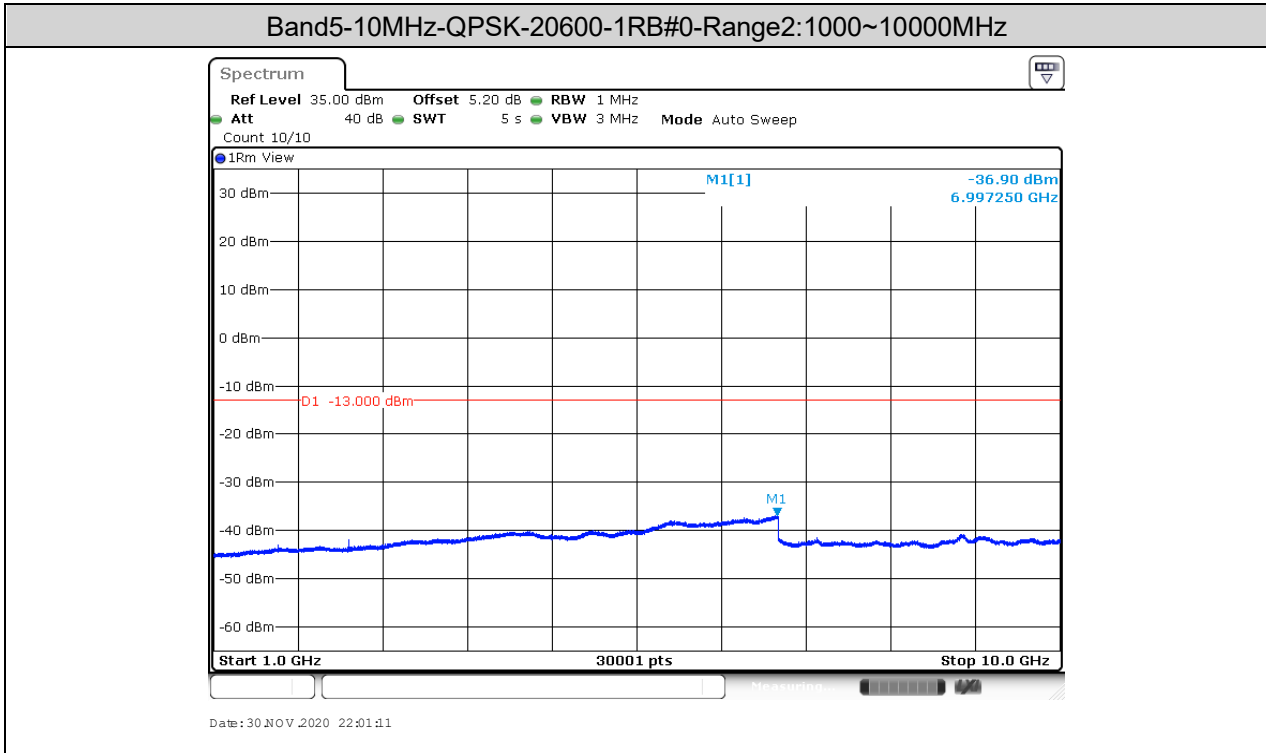
**Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz**



**Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz**

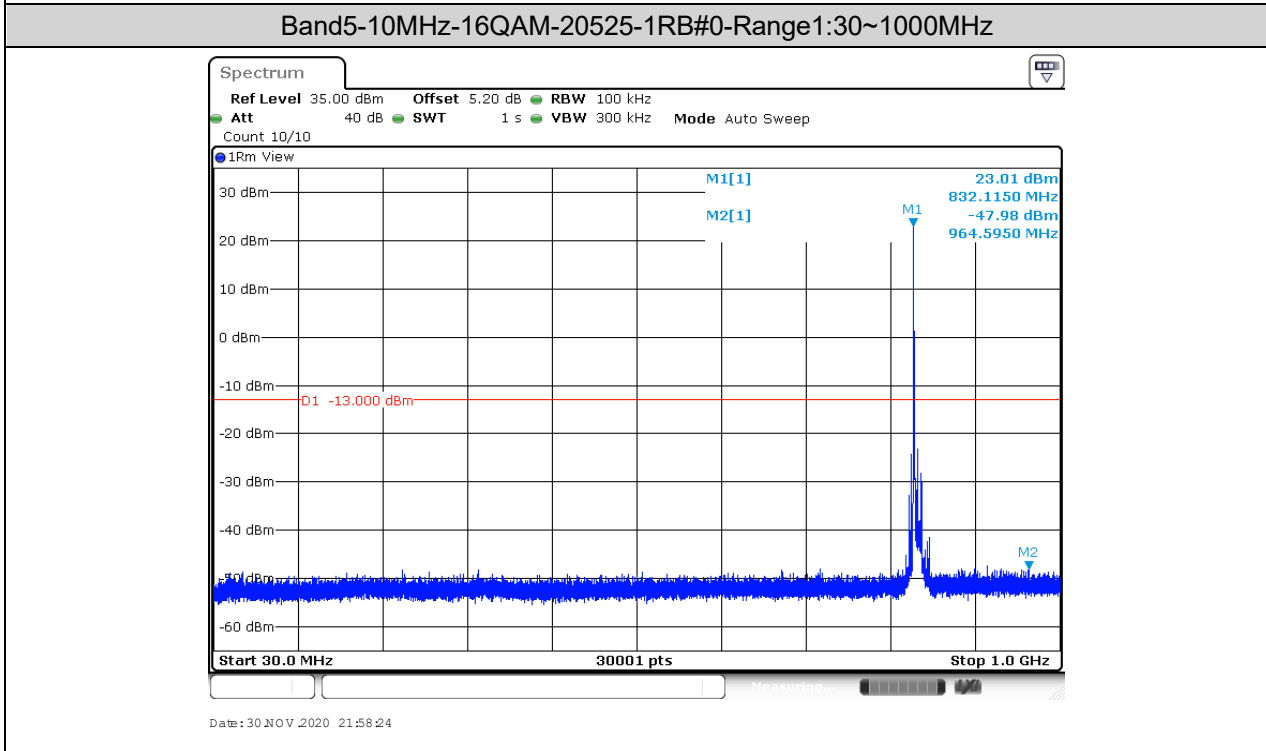
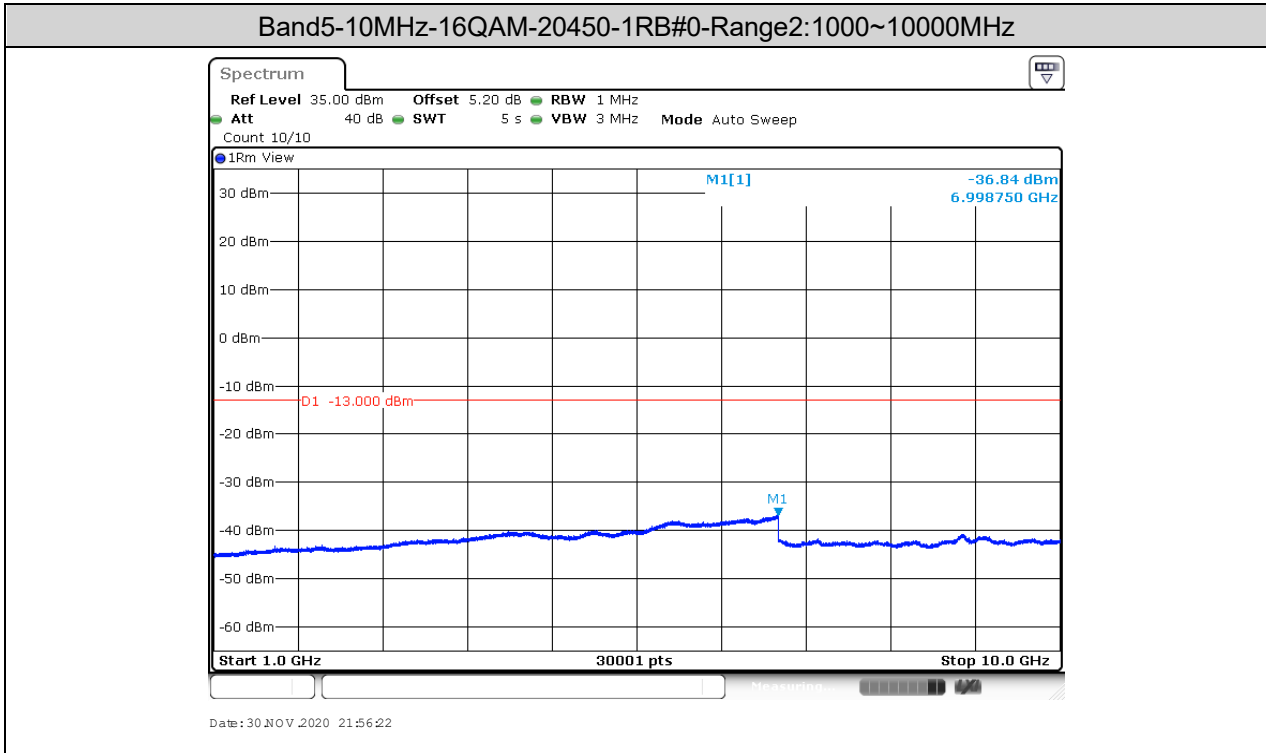


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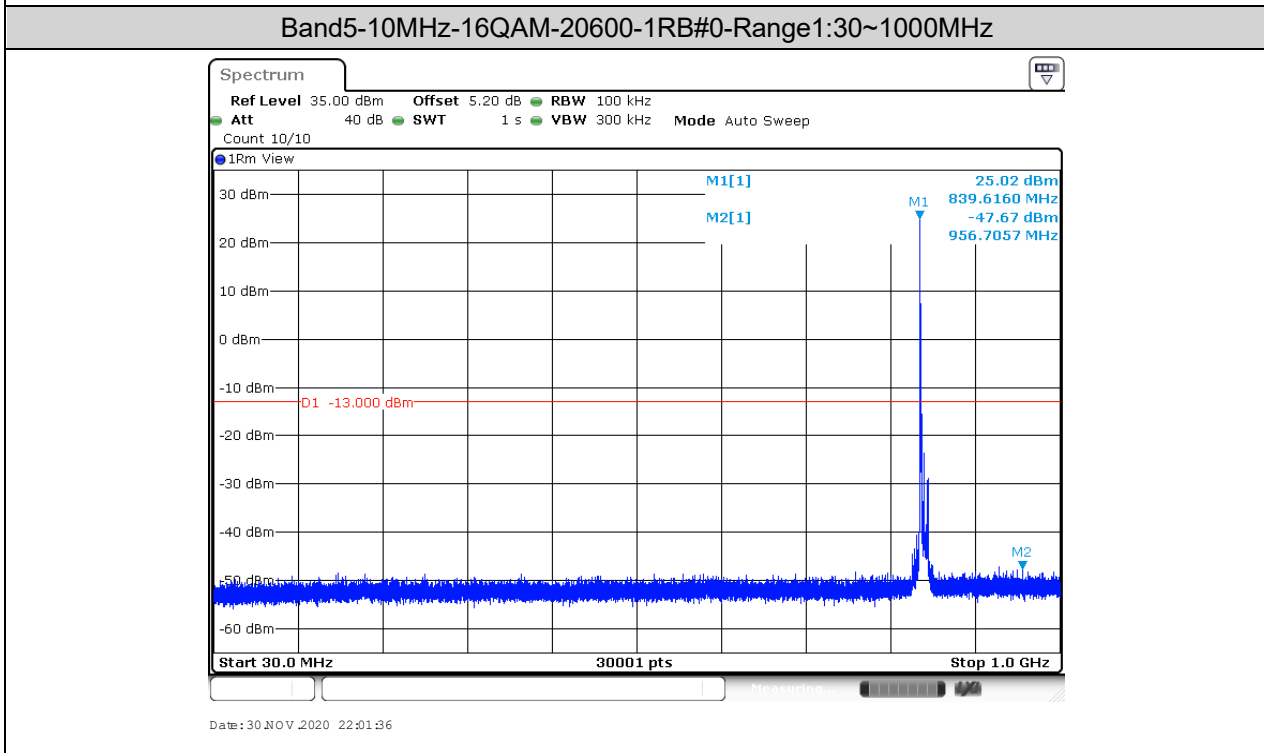
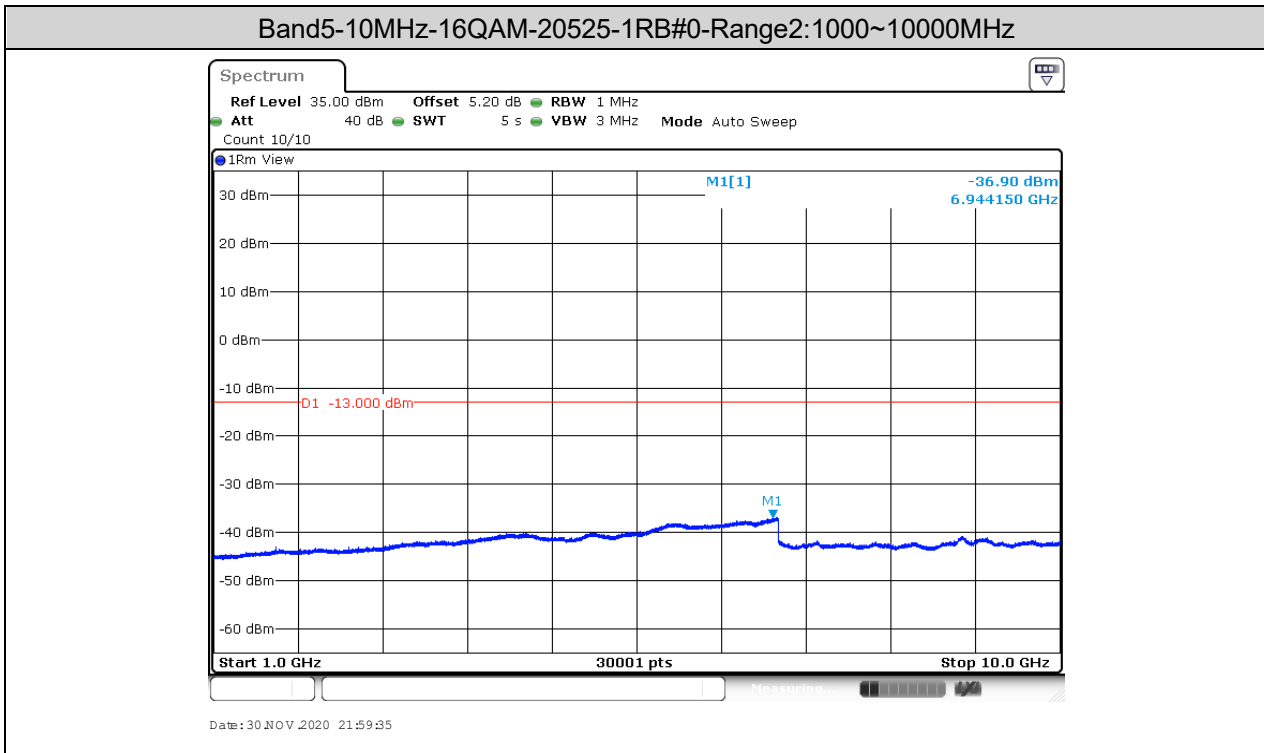
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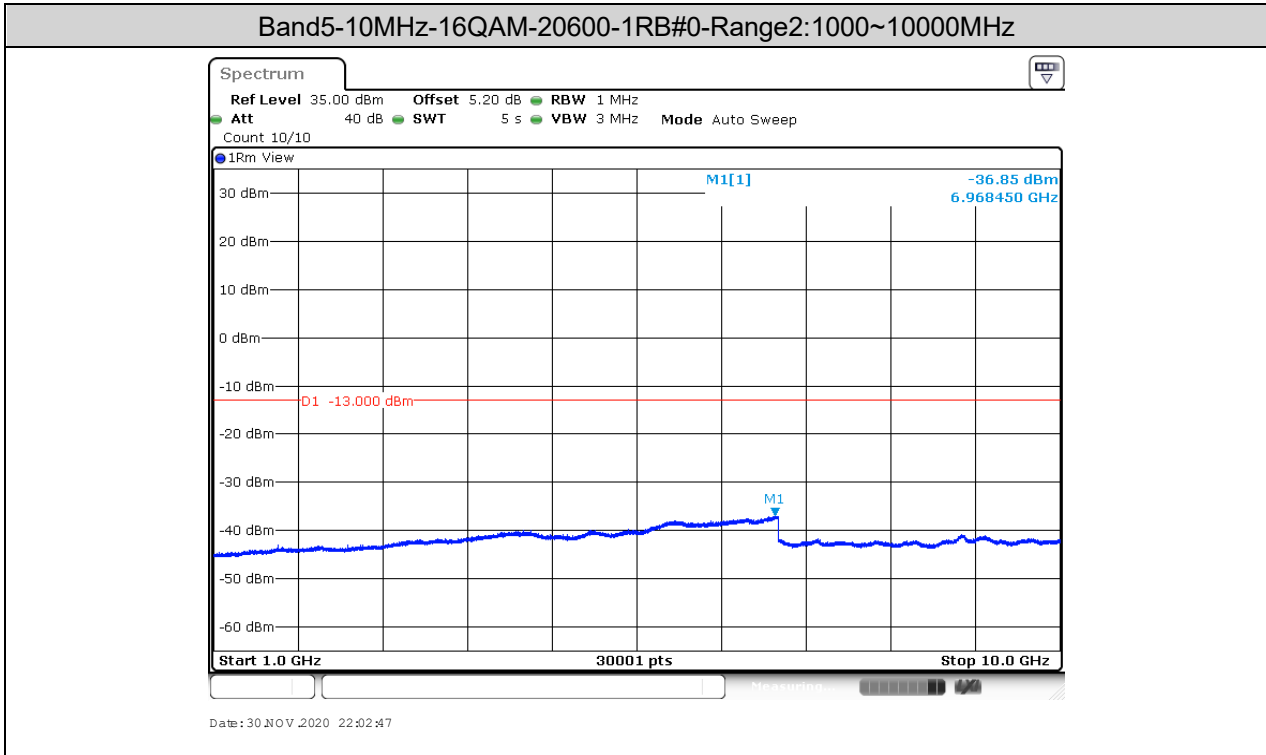
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## 7. Field Strength of Spurious Radiation

### 7.1. Test Mode =LTE/TM1 10MHz

#### 7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.926667	-79.26	-13.00	66.26	Vertical
404.593333	-69.80	-13.00	56.80	Vertical
1649.000000	-61.57	-13.00	48.57	Vertical
2473.500000	-55.66	-13.00	42.66	Vertical
5061.637500	-64.46	-13.00	51.46	Vertical
9243.900000	-60.83	-13.00	47.83	Vertical
62.480000	-75.46	-13.00	62.46	Horizontal
406.273333	-68.48	-13.00	55.48	Horizontal
1649.000000	-63.28	-13.00	50.28	Horizontal
2473.500000	-56.09	-13.00	43.09	Horizontal
4122.712500	-63.67	-13.00	50.67	Horizontal
7092.075000	-62.25	-13.00	49.25	Horizontal

#### 7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
65.000000	-79.77	-13.00	66.77	Vertical
406.366667	-69.33	-13.00	56.33	Vertical
1664.000000	-63.78	-13.00	50.78	Vertical
2496.500000	-57.23	-13.00	44.23	Vertical
3203.287500	-66.65	-13.00	53.65	Vertical
6217.987500	-63.41	-13.00	50.41	Vertical
62.246667	-75.39	-13.00	62.39	Horizontal
395.773333	-68.79	-13.00	55.79	Horizontal
1664.500000	-64.25	-13.00	51.25	Horizontal
2496.000000	-56.41	-13.00	43.41	Horizontal
4160.250000	-63.35	-13.00	50.35	Horizontal
9251.212500	-60.55	-13.00	47.55	Horizontal



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### 7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.273333	-80.70	-13.00	67.70	Vertical
401.840000	-69.34	-13.00	56.34	Vertical
1679.000000	-61.55	-13.00	48.55	Vertical
2518.500000	-55.01	-13.00	42.01	Vertical
4340.137500	-64.61	-13.00	51.61	Vertical
8855.850000	-61.26	-13.00	48.26	Vertical
62.293333	-75.33	-13.00	62.33	Horizontal
104.293333	-83.10	-13.00	70.10	Horizontal
354.240000	-66.72	-13.00	53.72	Horizontal
1767.500000	-56.93	-13.00	43.93	Horizontal
2518.500000	-57.25	-13.00	44.25	Horizontal
4423.987500	-65.04	-13.00	52.04	Horizontal

**Remark:**

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-5.20	-0.006273	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-3.20	-0.003860	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-4.90	-0.005911	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-6.40	-0.007651	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-2.20	-0.002630	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-7.30	-0.008727	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-6.50	-0.007701	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-2.50	-0.002962	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	0.70	0.000829	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-6.80	-0.008203	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-2.70	-0.003257	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-4.30	-0.005187	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-9.40	-0.011237	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-1.70	-0.002032	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-7.70	-0.009205	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-4.30	-0.005095	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-3.40	-0.004028	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-5.80	-0.006872	±2.5	PASS



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## 8.2. Frequency Vs Temperature

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-1.40	-0.001689	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-6.50	-0.007841	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	-6.20	-0.007479	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-4.50	-0.005428	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-7.90	-0.009530	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-5.00	-0.006031	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-5.10	-0.006152	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-6.00	-0.007238	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-8.90	-0.010736	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-6.60	-0.007890	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-5.20	-0.006216	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-9.10	-0.010879	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-9.20	-0.010998	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-1.50	-0.001793	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-7.80	-0.009325	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-5.90	-0.007053	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-7.80	-0.009325	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-8.60	-0.010281	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-8.40	-0.009953	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-5.60	-0.006635	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	-9.00	-0.010664	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-3.60	-0.004265	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-4.60	-0.005450	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-7.60	-0.009005	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-7.30	-0.008649	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-7.20	-0.008531	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-8.10	-0.009597	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-5.60	-0.006755	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-1.40	-0.001689	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-10	-7.30	-0.008806	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-3.70	-0.004463	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-3.20	-0.003860	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-6.80	-0.008203	±2.5	PASS



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Band5	10MHz	16QAM	20450	50RB#0	NV	30	-3.30	-0.003981	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-7.50	-0.009047	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-6.20	-0.007479	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-5.90	-0.007053	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-9.20	-0.010998	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-10	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-8.10	-0.009683	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-6.50	-0.007770	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-2.40	-0.002869	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-6.40	-0.007651	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-5.00	-0.005977	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	-3.10	-0.003706	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-7.10	-0.008412	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-5.00	-0.005924	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-10	-4.30	-0.005095	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-5.30	-0.006280	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-5.50	-0.006517	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-8.90	-0.010545	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	-0.80	-0.000948	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	-7.30	-0.008649	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-4.40	-0.005213	±2.5	PASS

The End



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